

PROSPECTUS

2012-2013



**PUNJAB AGRICULTURAL UNIVERSITY
LUDHIANA-141 004**

**Last date for receipt of application forms in the Office of Registrar,
Punjab Agricultural University, Ludhiana-141 004**

	Without late fee	With late fee of Rs. 1000/-
Programmes having Entrance Test	2.5.2012	7.05.2012
Programmes without Entrance Test i.e 2 year certificate course in Agriculture at Gurdaspur, PG Diploma in Agricultural Journalism & Mass Communication, B.Sc. (Hons.) Home Science 4/6 year, B.Sc. (Hons.) Fashion Designing, B.Sc. (Hons.) Nutrition and Dietetics, M.Sc. Fashion Designing	18.6.2012	25.06.2012
Ph.D. Programmes	19.10.2012	26.10.2012

PROSPECTUS PRICE

Rs. 1210/- PER COPY (*at the counter*)

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ENTRANCE TEST FEE

Rs. 2145/- for each Entrance Test

Rs. 3430/- includes Entrance Test Fee for Application Form
Downloaded from Internet

PAU PROSPECTUS FOR THE YEAR 2012-13

ERRATA

Admission to Ph.D. Programme in Business Administration

Number of seats	Four
Fees to be paid at the time of admission(semester-wise)	Non Boarder Boarder Approx. Approx. Rs. 33725/- Rs.37495/-

Eligibility for admission to Ph.D. programme in Business Administration

Qualifications Master's degree in Business Administration / Commerce

Other than inservice candidates (The minimum qualifications for admission to Ph.D. programme (other than inservice candidates) in the faculty of Basic Sciences & Humanities shall be an OCPA of 7.00 (out of 10.00) or 70% marks or equivalent at the M.Sc. and OCPA of 5.50 (out of 10.00) or 55% marks or equivalent at the Bachelor's level)

For inservice candidates

For inservice candidates

The minimum qualifications for admission to Ph.D. programme for inservice candidates in the faculty of Basic Sciences & Humanities shall be an OCPA of 6.50 (6.00 out of 10.00) or equivalent at the Master's level and OCPA of 5.50 (out of 10.00) or an OGPA of 2.00/4.00 or equivalent at the Bachelor's level.

For the purpose of admission to Ph.D. programme, an inservice candidate shall be an employee of the PAU or Punjab Govt. or Union Territory of Chandigarh having at least five years experience of Teaching/Research/Extension out of which at least three years should be after obtaining M.Sc. degree on the last date of receipt of applications.

Note: "Where admission is restricted to candidates who obtain certain minimum percentage of marks in the qualifying examination, the minimum percentage of marks may be reduced by 5% for candidates belonging to all reserved categories and 10% in respect of Kashmiri Migrants provided that the lower percentage prescribed does not fall below the minimum requirement for passing the qualifying examination."

Selection Criteria

PET-Basic Sciences in Business Administration

Through Entrance Test (PET) to be conducted on 21.11.2012 (in addition to the criteria given at page 21 of PAU Prospectus, 2012-13

ERRATA

Admission to Ph.D. Programme in Chemistry

Number of seats	Three
Fees to be paid at the time of admission(semester-wise)	Non Boarder Boarder Approx. Approx. Rs. 33725/- Rs.37495/-

Eligibility for admission to Ph.D. programme in Chemistry

Qualifications	Master's Chemistry with Bachelor's degree in Science
Other than inservice candidates	(The minimum qualifications for admission to Ph.D. programme (other than inservice candidates) in the faculty of Basic Sciences & Humanities shall be an OCPA of 7.00 (out of 10.00) or 70% marks or equivalent at the M.Sc. and OCPA of 5.50 (out of 10.00) or 55% marks or equivalent at the Bachelor's level)
For inservice candidates	For inservice candidates The minimum qualifications for admission to Ph.D. programme for inservice candidates in the faculty of Basic Sciences & Humanities shall be an OCPA of 6.50 (6.00 out of 10.00) or equivalent at the Master's level and OCPA of 5.50 (out of 10.00) or an OGPA of 2.00/4.00 or equivalent at the Bachelor's level. For the purpose of admission to Ph.D. programme, an inservice candidate shall be an employee of the PAU or Punjab Govt. or Union Territory of Chandigarh having at least five years experience of Teaching/Research/Extension out of which at least three years should be after obtaining M.Sc. degree on the last date of receipt of applications.
Note:	“Where admission is restricted to candidates who obtain certain minimum percentage of marks in the qualifying examination, the minimum percentage of marks may be reduced by 5% for candidates belonging to all reserved categories and 10% in respect of Kashmiri Migrants provided that the lower percentage prescribed does not fall below the minimum requirement for passing the qualifying examination.”
Selection Criteria	PET-Basic Sciences in Chemistry Through Entrance Test (PET) to be conducted on 21.11.2012 (in addition to the criteria given at page 21 of PAU Prospectus, 2012-13

**PUNJAB AGRICULTURAL UNIVERSITY
LUDHIANA**

Vice-Chancellor	Dr. Baldev Singh Dhillon	0161-2401960-79, Ext.206 0161-2401794
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Dean, College of Agriculture	Dr. D.S. Cheema	0161-2401960-79, Ext.365 0161-2403006
Dean, College of Agril. Engg. & Tech.	Dr. P.P.S. Lubana	0161-2401960-79, Ext.221 0161-2402456
Dean, College of Home Science	Dr. (Mrs.) Neelam Grewal	0161-2401960-79, Ext.209 0161-2403179
Dean, College of Basic Sciences & Humanities	Dr. Rajinder Singh Sidhu	0161-2401960-79, Ext.323 0161-2403533
Controller of Examinations	Dr. B.S. Sohal	0161-2401960-79, Ext.481 0161-2401105
Director Students' Welfare	Dr. D.S. Cheema	0161-2401960-79, Ext.203 0161-2403693
For admission enquiries:		
Superintendent (Academic)	Ms Sudesh Narula	0161-2401960-79, Ext.286
E-mail address of the Superintendent (Academic)		academic@pau.edu
Website of the University		www.pau.edu
E.mail address of the Registrar		registrar@pau.edu

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ABBREVIATIONS

<i>Nomenclature</i>	<i>Abbreviations</i>
Punjab Agricultural University	PAU
Indian Council of Agricultural Research	ICAR
College of Agriculture	COA
College of Agricultural Engineering & Technology	COAE&T
College of Home Science	COHS
College of Basic Sciences & Humanities	COBS & H
Bachelor of Science in Agriculture (Honours)	B.Sc. Agri. (Hons.)
Bachelor of Technology (Agricultural Engineering)	B. Tech. (A. E.)
Bachelor of Science (Honours) in Home Science	B.Sc. (Hons.) H.Sc.
Bachelor of Technology in Food Technology (Honours)	B.Tech F. T. (Hons.)
Bachelor of Science in Biotechnology (Honours)	B.Sc. Biotech. (Hons.)
Bachelor of Science (Honours) in Fashion Designing	B.Sc (Hons).F.D.
Bachelor of Science (Honours) in Nutrition & Dietetics	B.Sc. (Hons). N.& D.
Master of Computer Applications	MCA
Master in Journalism and Mass Communication	MJMC
PG Diploma in Agricultural Journalism & Mass Communication	PGDAJMC
Master of Science	M.Sc.
Master of Technology	M.Tech.
Master of Business Administration	MBA
Master of Business Administration (Agribusiness)	MBA (Agri. Busi.)
Doctor of Philosophy	Ph.D.
National Cadet Corps	NCC
National Sports Organisation	NSO
National Service Scheme	NSS
Non-Resident Indian	NRI
Overall Grade Point Average	OGPA
Overall Credit Point Average	OCPA
Common Entrance Test	CET
Agricultural Aptitude Test	AAT
Master's Entrance Test	MET
Ph.D. Entrance Test	PET

IMPORTANT

Any dispute arising out of anything connected with the University and its activities including admissions/operation of semester rules will be subject to jurisdiction of the Courts situated at Ludhiana.

DISCLAIMER

The statement made in the Prospectus and all information contained herein are believed to be correct at the time of publication. However, the University reserves the right to make any time, without notice, changes and additions to the regulations, conditions governing the conduct of students, requirements for degree or diploma, fees and any other information, or statements contained in this Prospectus. No responsibility will be accepted by the University for hardship or expenses incurred by its students or any other person or persons for such changes, additions, omissions or errors, no matter how they are caused.

IMPORTANT INFORMATION

1. Only those candidates who are residents of Punjab or Union Territory of Chandigarh are eligible for seeking admission to all Undergraduate, Masters', MBA and Diploma programmes other than that of Ph.D. programmes.
2. Candidates should reach the venue mentioned in the Admit Card at 9.00 a.m. sharp on the day of Entrance Test. Candidates will not be allowed to enter the Examination Hall without Admit Card. If the Admit Card is not received two days before the date of Entrance Test, the candidates should contact the office of the Registrar with one photograph from the same negative for the issue of duplicate Admit Card.
3. Original certificates/provisional degree certificate of qualifying examination must be available at the time of counselling/interview and will not be entertained afterwards.
4. All fresh Admissions to Undergraduate, Masters and diploma programmes to be closed on 3.8.2012 Ph. D admissions shall be closed on 24.1.2013.
5. The candidates reporting for counselling/interview after the scheduled time fixed shall be treated as absent.
6. The counselling will be conducted merit-wise. If a candidate misses the 1st counselling, he/she can attend the subsequent counsellings merit-wise, subject to availability of seats.
7. All the newly admitted candidates are required to give an undertaking that they will submit their original certificates/testimonials with the Dean concerned within a fortnight of their admission.
8. No Admit Card will be issued on the spot on the day of Entrance Test.
9. Candidates should see their result on the PAU website, www.pau.edu or notice board in the Registrar's office. No separate information will be sent for counselling/interview. The University will not pay any T.A./D.A. or any other expenses for appearing in the entrance test/counselling/interview.
10. The candidates appearing in qualifying examination in the current year can also apply for admission. But the original certificates/provisional degree certificate of qualifying examination must be available at the time of counselling.
11. The seats left vacant in different disciplines of Masters/Ph.D. programmes where there is no waiting list may be shifted to other disciplines within a particular faculty/college. The shifting of seats in different disciplines will be decided by a committee consisting of Dean, Postgraduate Studies (Chairman), Dean of the concerned faculty/college, Registrar and Controller of Examinations. The vacant seats will be shifted only to those discipline where no candidate has been admitted against reserved categories from sports persons and Kashmiri migrants. The committee after assessing the availability of required facilities will shift not more than one seat to a particular discipline. The recommendation of the committee shall be put up to the Vice-Chancellor for consideration/approval.
12. The Academic Council is the supreme academic authority to frame rules and regulations, increase/ decrease admission capacity and to decide all other matters relating to admissions and academic affairs.
13. Candidates to be called for 1st counselling shall not be more than four times of the seats to be filled.
14. All the programmes of the university are full-time programmes. A student, therefore, cannot take admission in more than one programme simultaneously.

15. The admission to all programmes of the University shall be made by the Registrar, who reserves the right to cancel the admission obtained by misrepresentation/concealment of facts or admission made due to error/oversight, etc.
16. The score on account of research credits/thesis evaluation should not be added for calculating the percentage of marks for admission to Ph.D. programme.
17. Ph.D. admission will be made from the 2nd semester to be commenced on 10.01.2013.
18. Date of counselling/interview will not be ordinarily changed even if the University is closed on that day on any account.
19. At the time of selection, the Selection Committee shall also consider the past record of the candidate as to his/her conduct as a student in the University or elsewhere. If it is known that candidate being considered for admission has been involved in acts of indiscipline in the hostels, in the college or in organising demonstration, etc., the Selection Committee may refuse admission to such a candidate and the decision of the Selection Committee shall be final. Those who have been expelled/rusticated or debarred by this University or by other Universities, shall not be admitted to this University. If any student conceals his/her involvement in such activities as above at the time of his/her application for admission and later on is found to be involved in acts of indiscipline etc. his/her admission shall be cancelled.
20. If a student after registration fails to attend the classes without written permission of the Dean concerned for the last consecutive seven working days during the spell of 12 calendar days commencing from the date of registration, his/her registration shall stand automatically cancelled and the seat vacated by him/her will be offered to the next candidate on the waiting list.
21. Students should be in formal dress while in campus. They should also wear prescribed lab coat in the laboratory, required protective gears in the field and track suits on the tracks/ grounds/ gymnasium.
22. If the number of applicants/candidates on the selection panel is less than 50% of the admission capacity in any course that course will be suspended and the application fee will be refunded to the candidate.
23. If the number of candidates is less than or equal to the number of seats available, the entrance test for that particular programme will not be conducted.

IMPORTANT NOTES FOR CET / AAT

1. CET / AAT applicants are required to submit only ADMIT CARD AND BANK DRAFT alongwith **Green Colour** application form at the time of submission of form.
2. Application form (**White Colour**) duly filled in along with all testimonials/certificates are required to be submitted by the candidates at the time of counselling failing which their candidature will not be considered.

PROSPECTUS AND APPLICATION FORMS

The prospectus and application forms can be obtained from the Addl. Director of Communication, Centre for Communication and International Linkages, PAU personally on payment of Rs. 1210/- in cash at the counter or by post by sending bank demand draft for Rs. 1290/- in favour of Addl. Director of Communication, Centre for Communication and International Linkages, PAU. However, the NRI candidates shall have to get the application forms separately on payment of Rs. 1450/- at the Counter or Rs. 1530/- by post. For Postgraduate Programmes, a candidate can appear in different tests as per his/her eligibility. A candidate is required to submit separate application form for each Entrance Test. The candidate should carefully study the admission rules and make sure that they fulfill the prescribed qualifications. The University will not pay travelling or other allowance for entrance test/counseling/ interview for admission. **The application form can also be downloaded from PAU website. i.e. www.pau.edu.**

CHAPTER I

INTRODUCTION

The Punjab Agricultural University was established in 1962 at Ludhiana on the pattern of Land Grant Colleges of USA with integrated teaching, research and extension programmes. It is committed to continuous improvement in the productivity and profitability of agriculture and allied sectors through the achievement of the following goals:

- To provide quality education in the areas of agriculture, agricultural engineering and allied fields.
- To undertake basic, applied and adaptive research to seek appropriate solutions to emerging problems in agriculture and develop relevant technologies to improve socio-economic conditions of the farming community and to ensure food security..
- To develop an effective mechanism for the transfer of technology to the farmers and agricultural organizations through different extension programmes with a view to improve agricultural productivity and economic condition of rural population.
- To develop appropriate technology for supporting the growth of agro-based industries.

The University campus is spread over an area of about 580 hectares and has approximately 2000 hectares of land on outlying different regional stations, research substations and seed farms located under 6 different agro-climatic zones of the State.

The University has elaborate physical facilities in terms of buildings, laboratories, lecture rooms, instructional and research farms, modern instruments, farm machinery, transport and library facilities. It has vast playgrounds for athletics, basketball, badminton, cricket, football, handball, kabaddi, volleyball and lawn tennis. For hockey, there is an Astroturf playground. In addition, there is Swimming Pool, a Cycling Velodrome and an Indoor Stadium having the facility of badminton court, table tennis, gymnastics, wrestling and weight lifting. The university has one Open Air Theatre for holding cultural festivals and a Students Home for the conduct of miscellaneous extra curricular activities. It has highly distinguished and qualified faculty of about 866 members positioned at the main campus as well as regional research stations. The faculty members and the postgraduate students of the University have won numerous national and international awards and honours, such as Padma Bhushan, Padma Shri, Rafi Ahmed Kidwai Memorial Prize, Shanti Swarup Bhatnagar Award, Hari Om Ashram Trust Award, ICAR Best Teacher Award, Jawahar Lal Nehru Award, etc. and fellowships of the prestigious professional scientific academies/societies like Third World Academy of Sciences, Indian National Science Academy, National academy of Agricultural Sciences in recognition of their outstanding contributions.

Widely acclaimed as the best agricultural university in Asia, the PAU has achieved a distinguished status at the national and international level. It has played a unique role in ushering green revolution in India and has the distinction of winning the first **Best Institution Award** of the Indian Council of Agricultural Research for the year 1995. At present, the University offers 5 Bachelors, 31 Masters and 23 Doctorate programmes in 32 departments of 4 constituent colleges. It also offers Bachelor of Education programme and 5 Diploma Courses in its 4 constituent colleges viz. College of Agriculture, College of Agricultural Engineering and Technology, College of Home Science and College of Basic Sciences & Humanities. An Institute of Agriculture has been established at Gurdaspur. In 1988, the University shifted from trimester to semester system and, in 1993, from letter grade system of evaluation to 1.00 - 10.00 credit point scale.

1. College of Agriculture

The college has its roots in Lyallpur, now Faisalabad, in Pakistan. It was re-established after partition in 1947 with a mission to excel in teaching, research and extension education programmes in agriculture and continues to be the major and most important constituent of the university.

It has recorded outstanding achievements, both in human resource development and in the advancement of science and technology in agriculture. Its pivotal role in making food-deficient country to food-surplus state, has been explicitly acknowledged. The college eventually received the Federation of Indian Chambers of Commerce and Industry Award 1977. The college has always endeavored to achieve highest academic standards through continuous updating of the course curricula with effective teaching and advisory systems. As many as 10,000 students have been awarded bachelors, masters and doctoral degrees from the college. The college takes pride in having its alumni risen to various coveted positions at state, national and international level. As many as 33 of them have been the Vice Chancellors of various universities; Agriculture / Horticulture Commissioners; DG, DDGs ADGs of ICAR. The recognitions/awards/honours bestowed upon the college alumni including Padma Bhushan, Padma Shree, Vir Chakra, Ashok Chakra, Ati Vashisht Sewa Medal, INSA/NAAS Fellowships, a number of Rafi Ahmad Kidwai Memorial Prizes, ICAR Team Awards, Arjuna Award, State Parman Patras, and many others are testaments to the great standing of the college.

School of Agricultural Biotechnology

The school of Agricultural Biotechnology was established in 2008 in the College of Agriculture. The mandate of the school is to carry out basic and applied research in the areas of Plant Tissue Culture & Transformation and Plant Molecular Biology. School of Agricultural Biotechnology has state-of-art infrastructural research facilities for research, modern laboratories, green and screen houses. The school has a Bioinformatics Centre as a part of Biotechnology Information System (BTIS) of DBT, Ministry of Science and Technology, Govt. of India.

Institute of Agriculture, Gurdaspur

Established in 1995, the Institute of Agriculture at Gurdaspur endeavours to produce middle level technical manpower in agriculture and promote self-employment among youth belonging to the border areas of Punjab.

2. College of Agricultural Engineering & Technology

Established in 1964, this college has excellent training facilities for undergraduate and postgraduate programmes in agricultural engineering. The college has made notable contribution during the four decades by developing several new technologies which have been adopted by the farmers and entrepreneurs of the State. The federation of Indian Chambers of Commerce and Industry Award 1975 has been received by this college in recognition of its outstanding contribution.

School of Electrical Engineering and Information Technology

The University information Technology Centre was established in 2008 and renamed as School of Information Technology in 2009 and again renamed as School of Electrical Engineering and Information Technology in 2012 with a vision to have advance agricultural informatics at PAU. The school aims to provide professional computer science education and specialized IT skills to agriculture undergraduates and postgraduates. IBM India has inked MOU with PAU for providing software repository to be used in the development of E-governance and training to students.

3. College of Home Science

Established in 1966 to provide modern education to girl students in home science, this college has contributed significantly for improving conditions in rural house holds.

4. College of Basic Sciences and Humanities

Established in 1965, the college offers graduate and postgraduate courses to train and develop scientific pursuit among the students of the constituent colleges of the university to understand basic process of life and use the knowledge to design and prioritize the scientific problems to conduct systematic and innovative research for the development of agriculture in the State and the country. Hence it plays a pivotal role in resident instruction programme of the university. The college has developed several technologies which have been adopted by the farmers.

Medium of Instruction: English

Hostel Accommodation: Hostel accommodation will be provided subject to availability.

CHAPTER II

SCHEDULE OF ADMISSIONS/ENTRANCE TESTS/ COUNSELLINGS/INTERVIEWS

(A) COLLEGE OF AGRICULTURE

Programme	Seats	Entrance Test (10.00 am to 1.00 pm)	Counselling/ Interview	
			1st	2nd
Undergraduate Programmes				
B.Sc. Agri (Hons.) 4-year	70+(11)	CET - 18.6.2012	29.6.2012 at 9.00 A.M.	2.8.2012 at 9.00 A.M.
B.Tech. Food Tech.* (Hons.) 4-year	34+(6)			
B.Sc. Agri. (Hons.) 6-year	50	AAT - 14.6.2012	10.7.2012 at 9.00 A.M.	1.8.2012 at 9.00 A.M.
2-Year Certificate Course in Agri. at Gurdaspur*	30	No Entrance Test	16.7.2012 at 9.00 A.M.	—
B.Sc. Agri. (Hons) 6-year on the basis of 2 yr. Certificate Course 5		No Entrance Test	17.7.2012 at 9.00 A.M.	—
Postgraduate Programme - M.Sc.				
Agronomy	12+(3)	MET - Agriculture 25.6.2012	13.7.2012 at 9.00 A.M.	30.7.2012 at 9.00 A.M.
Agrometeorology	2+(1)			
Extension Education	5+(2)			
Entomology	7+(2)			
Food Technology	5+(1)			
Pomology	8+(2)			
Vegetable Crops	8+(2)			
Floriculture & Landscaping	3+(1)			
Plant Breeding and Genetics	12+(3)			
Plant Pathology	6+(2)			
Nematology	1+(1)			
Soil Science	12+(3)			
Forestry	6+(1)			
	<u>87+(24)</u>			

Number of seats reserved for sports person subject to maximum 5 one seat in one subject.

Programme	Seats	Entrance Test (10.00 am to 1.00 pm)	Counselling/ Interview	
			1st	2nd
Ph. D				
Agronomy	5	PET - Agri 15.11.2012	3.12.2012 at 9.00 a.m.	----
Extension Education	3			
Entomology	4			
Food Technology	2			
Pomology	4			
Vegetable Crops	3			
Floriculture & Landscaping	1			
Plant Breeding and Genetics	4			
Plant Pathology	3			
Soil Science	4			
Agrometeorology	2	PET - Agromet		
	35	19.11.2012	3.12.2012 at 9.00 a.m.	----

School of Agricultural Biotechnology

B.Sc. Biotechnology* (Hons.)	42+(8)	CET - 18.6.2012	29.06.2012 at 9.00 a.m.	2.8.2012 at 9.00 a.m
M.Sc. Biotechnology*	10+(2)	MET - Biotech 22.6.2012	5.7.2012 at 9.00 a.m.	30.7.2012 at 2.00 p.m.
Ph D Biotechnology*	4	PET - Biotech 16.11.2012	3.12.2012 at 9.00 a.m.	-----

*** Self-supporting programmes**

NOTES:

- (i) 5 seats (additional) for B.Sc. Agri. (Hons.) 4 year programme reserved for Kashmiri Migrants.
- (ii) Seats in brackets denote the nominations to be made by Indian Council of Agricultural Research on the basis of Entrance Test to be conducted by the ICAR.
- (iii) 2 additional seats for B.Sc. Agri.(Hons.) 6-year programme reserved for the pass out of PAU Model High School, Kaoni.

VENUE OF COUNSELLING

<u>COUNSELLING</u>	<u>Undergraduate</u>	<u>Masters</u>	<u>Ph. D</u>
Ist	Pal Auditorium	Pal Auditorium	Office of Dean PGS
2nd	Pal Auditorium	Office of Dean PGS	-

(B) COLLEGE OF AGRICULTURAL ENGINEERING & TECHNOLOGY

Programme	Seats	Entrance Test		Counselling/ Interview	
		(10.00 am to 1.00 pm)		1st	2nd
Undergraduate Programmes					
B.Tech (Agril. Engg.) 4-year	52+ (8)	Admission through AIEEE conducted by CBSE, New Delhi		Counselling by PTU, Jalandhar	
Postgraduate Programmes - M Tech.					
Farm Power & Machinery	5+(2)] MET-AE 21.6.2012	16.7.2012 at 9.00 AM	1.8.2012 at 9.00 AM	
Soil & Water Engineering	5+(2)				
Processing & Food Engineering	10+(2)				
Civil Engineering (Hydrology & Water Resources Engineering/ Structural Engineering)	4	MET-CE 21.6.2012	16.7.2012 at 9.00 AM	1.8.2012 at 9.00 AM	
Computer Science & Engineering	7	MET-CSE 20.6.2012	16.7.2012 at 9.00 A.M.	1.8.2012 at 9.00A.M	
School of Electrical Engineering and Information Technology					
MCA*	<u>65</u> 96+(6)	MET-MCA 11.6.2012	9.7.2012 at 9.00 AM	1.8.2012 at 9.00 AM	
Number of seats reserved for sports person subject to maximum one seat in one subject. 5					
Ph. D					
Farm Power & Machinery	3] PET-AE 16.11.2012	6.12.2012 at 9.00 A.M.	-	
Soil & Water Engineering	2				
Processing & Food Engineering:	3				
Energy Science & Technology	<u>2</u> <u>10</u>	PET-EST 19.11.2012	6.12.2012 at 9.00 A.M.	-	

*** Self-supporting programmes**

NOTES:

- (i) 2 seats (additional) for B.Tech (Agril.Engg.) 4 year programme reserved for Kashmiri Migrants.
- (ii) Admission to B.Tech (Agril Engg) will be made by the PTU through AIEEE to be conducted by the CBSE, Delhi.
- (iii) Seats in brackets denote the nominations to be made by Indian Council of Agricultural Research on the basis of Entrance Test to be conducted by the ICAR.

VENUE OF COUNSELLING

<u>COUNSELLING</u>	<u>Undergraduate</u>	<u>Masters</u>	<u>Ph. D</u>
1st	-	Pal Auditorium	Office of Dean PGS
2nd	-	Office of Dean PGS	-

(C) COLLEGE OF BASIC SCIENCES & HUMANITIES, LUDHIANA

Programme	Seats	Entrance Test (10.00 am to 1.00 pm)	Counselling/Group Discussion/ Interview	
			1st	2nd
Postgraduate Programmes - M. Sc				
Biochemistry	10+(3)	MET-Basic Sciences 23.5.2012	3.7.2012 at 9.00 A.M.	27.7.2012 at 9.00 A.M.
Botany	10			
Microbiology	15+(4)			
Zoology	14			
Physics	6	MET -Physics 24.5.2012	3.7.2012 at 9.00 A.M.	27.7.2012 at 9.00 A.M.
Chemistry	10	MET-Chem 28.5.2012	3.7.2012 at 9.00 A.M.	27.7.2012 at 9.00 A.M.
Agril. Economics	15+(4)	MET-Agri 25.6.2012	13.7.2012 at 9.00 A.M.	30.7.2012 at 9.00 A.M.
Sociology	3+(1)			
MBA (Agribusiness)	10	MET-Agri Busi 21.5.2012	2.7.2012 at 9.00 A.M	-
Master in Journalism and Mass Communication*	5 <hr/> 98+12	MET-Jlsm 12.6.2012	3.7.2012 at 9.00 A.M.	27.7.2012 at 9.00 A.M.
Number of seats reserved for sports person subject to maximum one seat in one subject.	5			
MBA	30	On the basis of MET to be conducted by PTU Jalandhar		
PG Diploma in Agricultural Journalism and Mass Communication*	10	No Entrance Test	9.7.2012 at 2.00 P.M	
5-year Integrated M.Sc. (Hons.) Programme in the discipline of :				
Biochemistry*	20	CET-18.6.2012	29.6.2012 at 9.00 A.M.	2.8.2012 at 9.00 A.M.
Chemistry*	20			
Microbiology*	20			
Botany*	10			
Zoology*	10			
Ph. D				
Biochemistry	4	PET - Basic Sci 21.11.2012	4.12.2012 at 9.00 A.M.	-
Botany	3			
Agril. Economics	5			
Sociology	2			
Microbiology	5			
Zoology	5			

*** Self-supporting programmes**

NOTES:

- (i) One seat (additional) for MBA reserved for Kashmiri Migrants.
- (ii) 5-year Integrated students after 3 years are eligible for B.Sc. degree if the student is leaving the programme
- (iii) Seats in brackets denote the nominations to be made by Indian Council of Agricultural Research on the basis of Entrance Test to be conducted by the ICAR.

VENUE OF COUNSELLING

COUNSELLING

1st
2nd

5-yr integrated

Pal Auditorium
Pal Auditorium

Masters

Pal Auditorium
Office of Dean PGS

Ph. D

Office of Dean PGS
-

Counselling for MBA Agribusiness at office of Dean, COBS&H

Counselling for PGDAJMC at office of Dean, PGS

(D) COLLEGE OF HOME SCIENCE, LUDHIANA

Programme	Seats	Entrance Test		Counselling/ Interview	
		(10.00 A.M. to 1.00 P.M.)		1st	2nd
Undergraduate Programmes					
B.Sc.(Hons.) Home Sc 4 year	42+(8)	No Entrance Test		4.7.2012 at 9.00 a.m.	
B.Sc. (Hons.) Home Sc. 6-year	40	-do-		5.7.2012 at 9.00 a.m.	
B.Sc.(Hons.) Fashion Designing* 4-year	30	-do-		16.7.2012 at 9.00 a.m.	
B.Sc. (Hons.) Nutrition & Dietetics* 4-year	30	-do-		17.7.2012 at 9.00 a.m.	
Postgraduate Programmes - M.Sc					
Food & Nutrition	8+(2)		MET-Home Science 13.6.2012	6.7.2012	1.8.2012
Family Resource Management	5+(2)			at 9.00 AM	at 2.00 P.M.
Clothing & Textiles	3+(1)				
Human Development	4+(1)				
Home Science Extension & Communication Management	4+(1)				
Fashion Designing*	10	No Entrance Test		6.7.2012 at 2.00 PM	---
	34+(7)				
Number of seats reserved for sports person subject to maximum one seat in one subject.	2				
Ph. D					
Food & Nutrition	3		PET-Home Sci 20.11.2012	5.12.2012	---
Family Resource Management	2			at 9.00 A.M.	
Clothing & Textiles	2				
Human Development	3				
Home Science Extension & Communication Management	2				
	12				

***Self-supporting programmes**

NOTES:

- (i) 2 seats (additional) for B.Sc.(Hons.) H.Sc-4 year programme reserved for Kashmiri Migrants.
- (ii) Seats in brackets denote the nominations to be made by Indian Council of Agricultural Research on the basis of Entrance Test to be conducted by the ICAR.
- (iii) Boys candidates are also eligible for all the programme.
- (iv) 2 additional seats for BSc. (Hons.) H.Sc. 6 year programme reserved for the pass out of PAU Model High School, Kaoni.

VENUE OF COUNSELLING

COUNSELLING	UG	Masters	Ph. D
1st	Office of Dean COHSc.	Pal Auditorium	Office of Dean PGS
2nd	—	Office of Dean PGS	---

E. Schedule of interviews for admission of NRI candidates

Sr. No.	Programme	Last date for receipt of applications in the Office of Registrar	Date of Interview	Venue	Time
1.	B.Sc. Agri.(Hons.) 4-year programme	25.6.2012	16.7.2012	Office of Dean, COA	9.00 a.m.
2.	B.Tech. (Agril.Engg.) 4-year programme	-do-	16.7.2012	Office of Dean, COAE&T	9.00 a.m.
3.	B.Sc. (Hons.) Home Sc. 4-year Programme	-do-	16.7.2012	Office of Dean, COHS	9.00 a.m.
4.	MBA	-do-	17.7.2012	Office of Dean, COBS&H	9.00. am.
5.	MBA Agribusiness	-do-	17.7.2012 Group Discussion & Interview	Office of Dean, COBS&H	9.00 a.m.
6.	M.Sc./M.Tech.				
(i)	College of Agriculture	-do-	17.7.2012	Office of Dean PGS	9.00 a.m.
(ii)	College of Home Science	-do-	17.7.2012	-do-	9.00 a.m.
(iii)	College of Basic Science & Humanities	-do-	17.7.2012	-do-	11.00 a.m.
(iv)	College of Agril. Engg.&Tech.	-do-	17.7.2012	-do-	11.00 a.m.

Note: The candidates reporting for interview after the time schedule fixed shall be treated as absent.

CHAPTER III

RULES AND REGULATIONS REGARDING ADMISSION / ADMISSION PROCEDURE

1. Reservations

Reservation for various categories of candidates shall be as under:

(A) Undergraduate Programmes (Diploma Courses)

- | | | |
|------|--|---------|
| (a) | Candidates qualifying Common Entrance Test Conducted by ICAR | 15% |
| (b) | Nominees from Foreign Countries (against additional seats) | |
| (c) | NRI candidates (against additional seats) | |
| i) | B.Sc. Agri. (Hons.) 4-year | 5 Seats |
| ii) | B.Tech (Agril.Engg.) 4 year | 8 Seats |
| iii) | B.Sc.(Hons.) H.Sc. 4-year | 5 Seats |

(B) Master's Programmes (except MBA & PG Diplomas)

- | | | |
|-------|---|----------|
| (a) | Candidates qualifying All-India Entrance Test conducted by ICAR | 25% |
| (b) | NRI candidates (except self supporting programme)
(against additional seats) | |
| (i) | College of Agriculture
(not more than two seats in any one discipline) | 5 Seats |
| (ii) | College of Home Science
(not more than two seats in any one discipline) | 2 Seats |
| (iii) | College of Basic Sciences and Humanities
(not more than two seats in any one discipline) | 2 Seats |
| (iv) | MBA (Agribusiness) NRI candidates (against additional seats) | 5 Seats |
| (v) | MBA Programme NRI candidates (against additional seats) | 10 Seats |
| (vi) | College of Agricultural Engineering & Technology
(not more than two seats in any one discipline) | 2 Seats |
| (c) | Nominees from foreign countries (against additional seats) | |

(C) Ph.D. Programme

- | | | |
|----|---|-----|
| a) | Candidates qualifying All-India Entrance Test conducted by ICAR | 25% |
| b) | Nominees from foreign countries (against additional seats) | |

The remaining seats in all these programmes except Ph.D shall be filled up from amongst the candidates who are residents of Punjab State or Union Territory of Chandigarh. The admission to Ph.D programme shall be on All-India basis. However, 20% seats (minimum one seat in each discipline shall be reserved for inservice candidates of PAU on the basis of their seniority and the inservice candidates other than from PAU will be admitted against additional seats which will not be more than one in each discipline) are reserved for inservice candidates in the Ph.D. programme. In Ph.D programme, 25% and 5% seats shall be reserved for SC/ST and BC candidates, respectively (discipline-wise).

In MBA Programme, 85% seats are filled from candidates with state domicile and 15% from others.

Within the seats meant for Punjab State and Union Territory of Chandigarh, the reservation for different categories shall be as under:

- | | | |
|-----|---|-----|
| (a) | Scheduled Caste/Scheduled Tribe (SC/ST) | 25% |
| (b) | Backward Class (BC)
(Other Backward Class (OBC) Candidates will not be considered under this category) | 5% |

(c)	Outstanding Sportspersons (all Undergraduate programmes and Master's programmes but in Master's programmes, reservation shall be college-wise, subject to a maximum of one seat in one subject) (SP)	5%
(d)	Freedom fighters, their dependents and legally adopted children of such parents who do not have their own children (FF)	2%
(e)	Children of inservice/ex-service armed forces/CRP/BSF Officers/ Officials (including officials who died during their service)/Children/Widows of Para-military forces personnel, Punjab Police, PAP and Punjab Home Guards killed or disabled in action to the extent of 50% or more and wards of Punjab Policemen decorated with Gallantry Medals (reservation shall be college wise) (AF)	2%
(f)	(i) Children of the families of persons killed as a result of terrorist violence or during operation by security forces acting in aid of civil power and/or children of innocent civilians who have sustained 100% disability in terrorist violence or during operation by security forces acting in aid of civil power. (ii) Children of persons killed/100% physically disabled in Nov. 1984 riots and internal/external migrants (iii) Children of army deserters killed/100% physically disabled	(T.A) 2%
(g)	Persons with disability (DP)	3%
(h)	Tsunami affected persons (TSA)	1%

Note:

1. The candidates claiming reservation under category (a), (b) and (d) to (h), above shall have to submit a certificate issued by the competent authority prescribed by the Govt. of Punjab on prescribed proforma given in the prospectus.
2. Where the share of a particular reserved category comes to more than 0.5, atleast one candidate shall be admitted from that category.
3. Two seats in B.Sc. Agri. (Hons.) are reserved for the nominees of militancy infested area of J&K against additional seats. The admission will be made on the basis of recommendations made by the Chief Secretary of the J&K and after ensuring that the candidates recommended fulfil the minimum prescribed requirements for admission.
4. The admission of sportspersons under category (c) shall be governed by criteria at Annexure A to D.
5. Unfilled seats from the reserved categories and ICAR quota shall be offered to candidates competing on open merit basis.
6. If more number of ICAR candidates apply for admission, the open vacant seats shall be converted to ICAR seats (only for Masters programmes).
7. The reservation in Masters programmes for BC/AF/FF/TA/DP/TSA shall be college-wise subject to maximum one seat in one subject.
8. Four seats (two seats for College of Agriculture and one each for college of Home Science and Agricultural Engineering) will be allocated for inservice candidates against the existing seat (s). In College of Agriculture not more than one candidate will be admitted in one subject. These candidates will have to appear in the relevant entrance test to be conducted for Master's programme by this university. The merit list of inservice candidates will be prepared separately.
9. 5% seats faculty-wise at least one seat in each of undergraduate and postgraduate programmes are reserved for Kashmiri Migrants. The procedure will, of course, be the same as being followed for sports quota reservation. They are required to appear in the Entrance Examination for admission wherever applicable. The minimum percentage of marks in the qualifying examination may be reduced by 10% for determining the eligibility to appear in the Entrance Examination. They are also required to produce a certificate given by the Deputy Commissioner of the concerned district that they belong to the class of Kashmiri Migrants.
10. The candidate seeking admission in PAU in various programmes excepting Ph.D. are required to furnish Residence Certificate as per instructions/guidelines issued by the Govt. of Punjab, Department of Personnel and Administration Reforms (Personnel Policies II Branch), Chandigarh vide their letter No.1/3/95-3PPII/9619 dated 6.6.1996. Specimen formats of Residence Certificate for various categories mentioned in the above letter are available in the prospectus. The candidates should furnish certificate as applicable to them.

2. Schedule of Admissions:

Admission to all undergraduate and Master's programmes of the university shall be made in the beginning of the first semester and to Ph.D. programme in the beginning of the second semester of the academic year. No

admission will be made in the subsequent semester. The admission notice is generally published in the leading newspapers in March-April except for Ph.D. programmes which is published in October-November. No separate counselling/interview letters will be issued. The candidates must personally attend the counselling/interview.

3. Eligibility

(a) Undergraduate Programmes

(i) B.Sc. Agri. (Hons.) 4-year programme

10+2 or equivalent in Science/Agriculture with Physics, Chemistry and Mathematics/Biology/Agriculture with atleast 50% marks in aggregate.

(ii) B.Sc. Agri. (Hons.) 6-year programme

Matriculation or equivalent with at least 65% marks in aggregate in compulsory subjects.

(iii) B.Sc. Agri. (Hons.) 6-year programme (in the 3rd year)

Two year certificate course in Agriculture, Gurdaspur with an OCPA of 6.50 out of 10.00 on the basis of merit without appearing in Entrance Test.

(iv) B.Sc. Biotechnology (Hons.) 4-year programme

10+2 or equivalent in Science with atleast 50% marks in aggregate.

(v) B.Tech. Food Technology (Hons.) 4-year programme

10+2 or equivalent in Science with at least 50% marks in aggregate.

(vi) 2-year Certificate Course in Agriculture at Institute of Agriculture, Gurdaspur

Matriculation or equivalent with at least 50% marks in aggregate.

(vii) B.Tech. (Agril. Engg.) 4-year programme

10+2 (Non-Medical Group) or equivalent with atleast 50% marks in aggregate.

(viii) B.Sc. (Hons.) Home Science 4- year programme

10+2 (Science/Commerce/Arts) with atleast 50% marks in aggregate.

(ix) B.Sc. (Hons.) Home Science 6-year programme

Matriculation or equivalent with at least 45% marks in aggregate

(x) B.Sc. (Hons.) Fashion Designing 4-year programme

10+2 or equivalent in any stream with at least 45% marks in aggregate

(xi) B.Sc. (Hons.) Nutrition and Dietetics 4-year programme

10+2 (Medical/Non-Medical)

Note:

- i) The condition of 45% / 50% and 65% marks will not be applicable to SC/ST candidates in all the programmes provided that the lower percentage prescribed does not fall below the minimum requirement for passing the qualifying examination.
- ii) Where admission is restricted to candidates who obtain certain minimum percentage of marks in the qualifying examination, the minimum percentage of marks may be reduced by 5% for candidates belonging to all other reserved categories and 10% in respect of Kashmiri Migrants provided that the lower percentage prescribed does not fall below the minimum requirement for passing the qualifying examination.
- iii) The students admitted to B.Sc. Agri. (Hons.) programme under reserved quota for holders of 2 year Certificate course in Agri. from Institute of Agriculture, Gurdaspur and dropped permanently under Semester Rule 7.6.4(b) are not eligible for admission to B.Sc. Agri. (Hons.) programme under reserved quota again. They are required to appear in the Entrance Test alongwith other candidates seeking admission to B.Sc. Agri. (Hons.).

3 (b) Masters' Programmes

(i) Faculty of Agriculture

The minimum qualifications for admission to Masters programme (other than inservice candidates) shall be an OCPA of 6.00 or 60% marks or equivalent at the graduation level as shown against respective discipline (s).

Discipline(s)	Qualifications
1. Agronomy; Entomology; Plant Breeding & Genetics; Nematology Plant Pathology, Soil Science	B.Sc. Agri./B.Sc. Agri. (Hons.)
2. Extension Education	B.Sc. Agri./B.Sc. Agri. (Hons.)/B.Sc. (Hons.) H.Sc./ B.Sc. (Agri. Maco)
3. Pomology; Floriculture and Landscaping; Vegetable Crops	B.Sc. Agri./B.Sc. Agri. (Hons.)/B.Sc. Horticulture
4. Agrometeorology	B.Sc. Agri./B.Sc. Agri. (Hons.)/B.Tech. (Agril. Engg.). The student with B.Sc. (Pure Sc.)/B.Tech. shall be required to clear prescribed additional deficiency courses.
5. Food Technology	B.Sc. Agri./B.Sc. Agri. (Hons.)/B.Sc. Food Science and/or Food Technology/B.Sc. Home Science with elective in Foods & Nutrition/B.Tech. Food Technology.
6. Forestry	B.Sc. Agri./B.Sc. Agri. (Hons.) /B.Sc. Forestry.
School of Agricultural Biotechnology	
7. Biotechnology	B.Sc. (Hons.) Biotechnology /B.Sc. Biotechnology - 4 year/B.Tech. Biotechnology 4-year/B.Sc. Agri. (Hons.)/ B.Sc. Medical/B.Sc. Biochemistry/B.Sc. Molecular Biology/B.Sc. Microbiology/B.Sc. Biotechnology. (Students of 3 years graduation programmes will have to take deficiency courses as per requirements)

For inservice candidates

The minimum qualifications for admission to Masters' programmes for inservice candidates in the faculty of agriculture in the respective discipline shall be an OCPA of 5.50 or 55% aggregate marks or equivalent with at least 5 years professional experience (after completion of Bachelor's degree) at the minimum level of Agricultural Development Officer or equivalent on the last date of receipt of applications in teaching/Research/extension in any department of Punjab Government/Union Territory of Chandigarh and other Semi Govt. organization.

The candidates who have experience on jobs lower than the Agricultural Development Officers and equivalent must possess minimum OCPA of 6.00 or 60% marks at the graduation level.

For admission under in-service category, only those applications shall be considered which are duly forwarded by the Heads of the Departments/ Deans or Directors concerned, duly certified that during the study period their lien will be retained against regular posts and on completion of their studies, they will join the said posts.

(ii) Faculty of Agricultural Engineering & Technology

The minimum qualifications for admission to Master's programmes (other than inservice candidates) shall be an OCPA of 6.00 or 60% marks or equivalent at the graduation level as shown against the respective discipline(s):

Discipline(s)	Qualifications
1. Farm Power & Machinery	Bachelor's or equivalent degree in Agril. Engg./Mechanical Engg. or a related field of Engg.
2. Soil & Water Engg.	Bachelor's or equivalent degree in Agril. Engg./Civil Engg. or a related field of Engg.
3. Processing & Food Engg.	Bachelor of Engineering or Technology in Agril./Mechanical/ Chemical/Electrical Engg./ Food Engineering or equivalent degree
4. Civil Engg.	Bachelor's or equivalent degree in Civil/Agril.Engg.or a related field of Engg.
5. Computer Science & Engineering	B.Sc.Engg./B.Tech./B.E.in Computer Science/ Electronics/ Electrical.
School of Electrical Engg. & Information Technology	
6. Master of Computer Application 3- year	Graduate in any discipline

All the students admitted in respective discipline who do not have a major subject of the discipline at the graduation level shall be required to clear deficiency courses prescribed by the respective advisory committee.

For inservice candidates

The minimum qualifications for admission to Masters' programmes for inservice candidates in the faculty of agricultural engineering in the respective discipline shall be an OCPA of 5.50 or 55% aggregate marks or equivalent with at least 5 years professional experience (after completion of Bachelor's degree) at the minimum level of Junior Engineer or equivalent on the last date of receipt of applications in teaching/research/extension in any department of Punjab Government/Union Territory of Chandigarh and other Semi Govt. organization.

The candidates who have experience on jobs lower than the Junior Engineer or equivalent must possess minimum OCPA of 6.00 or 60% marks at the graduation level.

For admission under in-service category, only those applications shall be considered which are duly forwarded by the Heads of the Departments/ Deans or Directors concerned, duly certified that during the study period their lien will be retained against regular posts and on completion of their studies, they will join the said posts.

(iii) Faculty of Home Science

The minimum qualifications for admission to all masters' programmes of Home Science (other than inservice candidates) shall be B.Sc. (H.Sc) with an OCPA of 6.00 or 60% marks or equivalent. The candidates having an OCPA of 6.00 or 60% marks or equivalent in B.Sc. degree in Nutrition and Dietetics will also be eligible for admission to Masters programme in the subject of Food and Nutrition.

M.Sc. Fashion Designing	B.Sc. (Hons.) Fashion Designing/B.Sc. Fashion Designing with minimum OCPA of 6.00/10.00 or 60% marks or equivalent.
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(iv) Faculty of Basic Sciences & Humanities

Masters' Programmes

The minimum qualifications for admission to Masters' programmes (other than inservice candidates) shall be an OCPA of 6.00 or 60% marks or equivalent except of M.Sc. Sociology and Agricultural Economics for which an OCPA of 5.50 or 55% marks at the Graduation level as shown against the respective discipline(s).

Discipline(s)	Qualifications
1. Biochemistry	B.Sc. Agri./B.Sc. Agri. (Hons.) /B.Sc./B.Sc. Hons./ B.Sc.(Hons. School) with any Biological Science.
2. Botany	B.Sc. Agri./B.Sc. Agri. (Hons.) or B.Sc. or B.Sc. Hons./B.Sc. (Hons. School) with Botany.
3. Chemistry	B.Sc./B.Sc. (Hons.)/B.Sc. (Hons. School) with Chemistry.
4. Agricultural Economics	B.Sc. Agri./B.Sc. Agri. (Hons.) or B.A. with Honours in Economics or B.A. with Economics (at least 60% marks in the subject)/B.Sc. (Ag. Maco)/ B.Com.
5. Sociology	B.Sc. Agri. or B.Sc. Home Science or B.A. with Sociology/Economics.
6. Microbiology	B.Sc. Agri./B.Sc. Agri. (Hons.) /B.Sc. (Medical)/B.Sc. (Hons. School) with any Biological Science/ B.Sc. Genetics.
7. Zoology	B.Sc. Agri./B.Sc. Agri (Hons.) /B.Sc. Fisheries/B.Sc. (Medical)/B.Sc.(Hons. School) in Zoology.
8. Physics	B.Sc./B.Sc. (Hons.)/B.A. with physics and Math.
9. Business Administration	Graduate in any discipline.
10. Agribusiness	Graduate in any field of Agricultural Sciences or Allied subjects such as Agricultural Engineering, Veterinary Sciences, Agri-Business Management, Home Science (4 year duration), B.Sc. (Agri. Maco).
11. 5-year Integrated M.Sc. (Hons.) programme in the discipline of Biochemistry, Microbiology, Botany, Zoology and Chemistry	10+2 or equivalent in science with at least 50% marks in aggregate.
12. Master in Journalism and Mass Communication	Graduate in any stream with OCPA of 6.00 (out of 10.00) or 60% marks or second class Master's degree or second class graduate with Diploma in Journalism.
13. PG Diploma in Agricultural Journalism & Mass Communication	Graduation in any stream.

All the students admitted in respective discipline who do not have a major subject of the discipline at Graduation level shall be required to clear deficiency courses prescribed by the respective advisory committee.

Candidates appearing for the final year of the Bachelor's Degree examination in the current year can also apply. In such cases, final selection will be provisional subject to fulfilment of above requirements.

3 (c) Ph.D. Programmes

(i) Faculty of Agriculture

The minimum qualifications for admission to Ph.D. programme (other than inservice candidates) shall be an

OCPA of 7.00 or 70% marks or equivalent at Master's level and an OCPA of 5.50 or 55% marks or equivalent at Bachelor's level as shown against respective discipline(s).

Discipline(s)	Qualifications
1. Agronomy; Entomology; Plant Pathology; Soil Science	M.Sc. in respective subject and B.Sc. Agri./B.Sc. Agri. (Hons.)
2. Pomology; Vegetable Crops; Floriculture & Landscaping	M.Sc. in respective subject and B.Sc. Agri./B.Sc. Agri. (Hons.)/B.Sc. Horticulture
3. Food Technology	M.Sc. Food Tech./M.Tech. Food Technology and B.Sc. Agri./B.Sc. Agri. (Hons.)/B.Sc. Food Science/ B.Tech. Food Technology/B.Sc. Home Science.
4. Plant Breeding & Genetics	M.Sc. Plant Breeding/Plant Breeding & Genetics/ Genetics and B.Sc. Agri./B.Sc. Agri. (Hons.).
5. Extension Education	M.Sc. in Extension Education/Home Science Extension Education and B.Sc. Agri./B.Sc. Agri. (Hons)/B.Sc. (Home Science).
6. Agrometeorology	M.Sc. Agrometeorology/M.Sc. Agri and B.Sc./ B.Sc. Agri./B.Sc. Agri. (Hons.)/B.Tech. (Agril. Engg.)
School of Agricultural Biotechnology	
7. Biotechnology	M.Sc. Biotechnology/Plant Breeding and Genetics/ Life Sciences

For Inservice Candidates

The minimum qualifications for admission to Ph.D. programme for inservice candidates in the faculty of Agriculture in the above mentioned disciplines shall be an OCPA of 6.50 or equivalent at the M.Sc. level and OCPA of 5.50 or an OGPA of 2.00 or equivalent at the bachelor's level.

For the purpose of admission to Ph.D. programme, an inservice candidate shall be an employee of PAU or Punjab Govt. or Union Territory of Chandigarh having at least five years experience of Teaching/Research/Extension out of which at least three years should be after obtaining M.Sc. degree on the last date of receipt of applications.

(ii) Faculty of Agricultural Engineering & Technology

The minimum qualifications for admission to Ph.D. programme (other than inservice candidates) under the faculty shall be an OCPA of 7.00 or 70% marks or equivalent in M.Tech. and an OCPA of 5.50 or 55% marks or equivalent at Bachelor's level as shown against respective discipline(s).

Discipline(s)	Qualifications
1. Farm Power & Machinery; Soil & Water Engineering; Processing & Food Engg.	Master's degree in Technology/Engg. or equivalent in the respective discipline of Engg. and B.Tech. (Engg.) or equivalent.
2. Energy Science & Technology	Master's degree in Agril. Engg. or in any of its specialisation and B.Tech (Engg.) or equivalent.

For inservice candidates

The minimum qualifications for admission to Ph.D. programme for inservice candidates in the faculty of Agricultural Engg. & Technology shall be an OCPA of 6.50 or equivalent at the M.Tech. level and OCPA of 5.50 or an OGPA of 2.00 or equivalent at the Bachelor's level.

For the purpose of admission to Ph.D. programme, an inservice candidate shall be an employee of PAU or Punjab Govt. or Union Territory of Chandigarh having at least five years experience of Teaching/Research/Extension out of which atleast three years should be after obtaining M. Tech. degree on the last date of receipt of applications.

(iii) Faculty of Home Science

The minimum qualifications for admission to Ph.D. programme (other than inservice candidates) in the faculty of Home Science shall be an OCPA of 7.00 or 70% marks or equivalent at the Master's level and an OCPA of 5.50 or 55% marks or equivalent at the Bachelor's level as shown against respective discipline(s)

Discipline(s)	Qualifications
1. Food & Nutrition	M.Sc. Food & Nutrition/Human Nutrition/ Food Science & Technology/Dietetics and B.Sc. (H.Sc.)/B.Sc./B.Sc. Agri.
2. Family Resource Management	M.Sc.Home Management/Family Resource Management and B.Sc. (H.Sc.).
3. Clothing & Textiles	M.Sc. Clothing & Textiles and B.Sc. (H.Sc.).
4. Human Development	M.Sc. in Child Development/Human Development and Family Studies/Human Development and B.Sc. (H.Sc.)
5. Home Science Extension & Communication Management	M.Sc.H.Sc.Education & Extension/ Extension Education and B.Sc. (H.Sc.).

For inservice candidates

The minimum qualifications for admission to Ph.D. programme for inservice candidates in the faculty of Home Science in the respective discipline shall be an OCPA of 6.50 or equivalent at the Master's level and OCPA of 5.50 or an OGPA of 2.00 or equivalent at the Bachelor's level.

For the purpose of admission to Ph.D programme, an inservice candidate shall be an employee of PAU or Punjab Govt. or Union Territory of Chandigarh having at least five years experience of Teaching/Research/Extension out of which at least three years should be after obtaining M.Sc. degree on the last date of receipt of applications.

(iv) Faculty of Basic Sciences & Humanities

The minimum qualifications for admission to Ph.D. programme (other than inservice candidates) in the faculty of Basic Sciences & Humanities shall be an OCPA of 7.00 or 70% marks or equivalent at the M.Sc. and OCPA of 5.50 or 55% marks or equivalent at the Bachelor's level as shown against respective discipline(s):

Discipline(s)	Qualifications
1. Biochemistry	M.Sc. Biochemistry/M.V.Sc. Vety. Biochemistry.
2. Agricultural Economics	M.Sc. Agril. Economics/M.A. Economics
3. Zoology	M.Sc. Zoology/Fisheries/Genetics/Human Biology.
4. Botany	M.Sc. Botany.
5. Microbiology	M.Sc. Microbiology
6. Sociology	M.Sc. Sociology/M.A. in Sociology

For inservice candidates

The minimum qualifications for admission to Ph.D. programme for inservice candidates in the faculty of Basic Sciences & Humanities shall be an OCPA of 6.50 or equivalent at the Master's level and OCPA of 5.50 or an OGPA of 2.00 or equivalent at the Bachelor's level.

For the purpose of admission to Ph.D. programme, an inservice candidate shall be an employee of the PAU or Punjab Govt. or Union Territory of Chandigarh having at least five years experience of Teaching/Research/ Extension out of which at least three years should be after obtaining M.Sc. degree on the last date of receipt of applications.

Note: "Where admission is restricted to candidates who obtain certain minimum percentage of marks in the qualifying examination, the minimum percentage of marks may be reduced by 5% for candidates belonging to all reserved categories and 10% in respect of Kashmiri Migrants provided that the lower percentage prescribed does not fall below the minimum requirement for passing the qualifying examination".

4. Entrance Tests

(a) There will be a Common Entrance Test (CET) for admission to B.Sc. Agri. (Hons.) B.Sc. Biotech. (Hons.), B.Tech. Food Technology (Hons.), 5-year Integrated M.Sc. (Hons.) programmes which will be held at PAU, Ludhiana. The admission to B.Sc. Agri. (Hons.) 6-year, MBA Agribusiness and M.Sc. programmes in the faculties of Agriculture Home Science., Agricultural Engineering and Basic Sciences & Humanities shall also be made through Entrance Test to be conducted at PAU, Ludhiana. There shall be negative marking for wrong answers, cuttings and over-writing for the objective type questions. There shall be no re-evaluation of scripts. The instructions regarding conduct of entrance tests shall be announced at the time of the tests.

(b) Entrance Test Fee

For each Entrance Test	Rs. 2145/-
For Application Form Downloaded from Internet	Rs. 3430/-

Applications should be accompanied with the prescribed fee (non-refundable) in the shape of crossed Bank Demand Draft in favour of Comptroller, PAU, Ludhiana payable at any scheduled bank at Ludhiana.

5. Selection Procedure for Admissions:

A. Undergraduate Programmes (CET/AAT)

(a) The relative merit of candidates shall be determined on the basis of marks obtained in the entrance test (CET/AAT) except of sportspersons. The admission of sports persons shall be governed by criteria at Annexures A to D. The choice of the programme will be obtained at the time of counselling.

Note:

- In case of tie in the merit list, a candidate getting higher percentage of marks in the qualifying examination shall be ranked higher in order of merit.
- In case of tie in percentage of marks in the qualifying examination also, the candidate senior in age shall be ranked higher in order of merit.

(b) 2-Year Certificate Courses in Agriculture at Institute of Agri.,Gurdaspur

(i) Performance in matriculation examination	65 marks
(ii) For performance in interview	35 marks
	100 marks

(c) B.Sc. (Hons.) H.Sc. 4 year programme

i) Performance in +2 exam 80 marks

ii) For performance in interview 20 marks

100 marks

(d) B.Sc. (Hons.) Home Science 6-year programme

(i) Performance in matriculation examination 80 marks

(ii) For performance in interview 20 marks

100 marks

(e) B.Sc. (Hons.) Fashion Designing 4-year programme

For performance in qualifying examination 80 marks

Interview 20 marks

100 marks

(f) B.Sc. (Hons.) Nutrition and Dietetics 4-year programme

For performance in qualifying examination 80 marks

Interview 20 marks

100 marks

(g) B.Tech. (Agril. Engg.)

The admission will be made on the basis of the AIEEE to be conducted by the CBSE, New Delhi.

5 B. M.B.A.

The admission will be made through MET. The Test and Counselling will be conducted by PTU Jalandhar

5 C. M.B.A. Agribusiness

The admission will be made on the basis of written test, group discussion and interview according to the following criteria:

Written Test	Weightage
Written communication ability	60%
Numerical ability	
Management aptitude	
General Knowledge	20%
Group discussion	10%
Interview	10%

5 D. PG Diploma in Agricultural Journalism and Mass Communication

For performance in qualifying examination 90 marks

Interview 10 marks

100 marks

5 E (a) Masters' Programmes (except MBA Agri. Business)

The relative merit of candidates shall be determined on the basis of marks obtained in the Entrance Test except of sportspersons. The admission of sportspersons shall be governed by criteria at Annexures A to D. The choice of subject of the candidates appearing in different entrance tests will be obtained at the time of counselling. For candidates seeking admission in Agriculture faculty, choice of subject will be same as filled up in the application form.

(b) Masters' programme in Fashion Designing

For performance in Bachelor's degree	80%
Interview	20%

Note:

- i) Ph.D students will be sent to the other universities/institutes during the 1st semester (within 15 calendar days from the start of the semester) of their admission from the departments/disciplines of Plant Breeding & Genetics, Soil Science, Horticulture, Food Technology, Agronomy, Entomology, Foods & Nutrition, Clothing & Textiles, Microbiology, Biochemistry, Soil & Water Engineering, Processing & Food Engineering, Agri. Economics & Sociology.
- ii) If any PAU graduate is awarded Junior Research Fellowship for M.Sc. by ICAR/CSIR/UGC and his/her name is recommended and if such a student seeks admission, he/she will be admitted in the University against additional seat in the concerned discipline, provided he/she fulfils the minimum requirements. The candidates from other states, who have won the above fellowship, will also be given admission against additional seats likewise.
- iii) When a student is admitted to a department or a discipline other than the one in which he had taken elective in his undergraduate programme, he shall be required to take all electives in the undergraduate programme which are prescribed for the subject in which he is admitted for the Master's degree, which he has not taken before. These will be over and above the minimum graduation requirements for the programme. In case of a pure science graduate admitted to a department, the head of the department will decide which of the elective courses in the undergraduate programme should be taken by him.

5 F. Ph.D. Programmes

Performance in the Entrance Examination	70%
Masters Research by Thesis	10%
Interview	20%

Note:

- i) No candidate, who has received a stipend as an inservice candidate or who has done his M.Sc. on study leave, shall be admitted to Ph.D. programme unless he has completed the period of service he is bound to for the money received for his M.Sc. Such candidates, however, can be considered for admission if they return the money received prior to the last date for receipt of applications.
- ii) If any student is awarded Fellowship (meant for pursuing Ph.D. programme) by ICAR/CSIR/UGC or any other Government Funding Agency. such student seeks admission, he/she will be admitted in the University against additional seat in the concerned discipline.
- iii) The particulars of the candidates recommended by Selection Committee shall be placed before the Academic Council which will finalize the list of candidates to be admitted.
- iv) Marks given for the interview are for the purpose of selection only and are not to be considered for the grant of fellowship.
- v) **Test Structure, Syllabus and model questions for Ph.D programme will be supplied alongwith application form.**

6. Selection Notice

- * The Selection notices are ordinarily displayed on the notice boards/PAU website/issued at the time of counselling/interview. However, the candidates should remain in touch with the university.
- * The candidates selected for on the basis of entrance test shall be required to deposit fee on their selection immediately after counselling/interview failing which the seat will be offered to the next candidate on merit on the same day.
- * The waiting list for admission shall not be valid beyond the last date fixed for admission in that semester. All the selected candidates shall have to submit medical fitness certificates to be obtained from the University Medical officer within a week.

- * The candidates from Universities/Institutions other than the PAU admitted to this University will have to submit medical fitness certificate to be obtained from University Medical Officer before depositing their fees and other dues in the respective college of the University.
- * The medical examination fees of Rs. 120/- will be charged from the candidates at the time of his/her medical examination. Any candidate found medically unfit, shall be entitled to refund of fees.
- * The application for refund must be submitted within 14 days from the issue of selection notice. No admission in undergraduate and postgraduate programmes shall be made after the last date of admission.

7. Regulations for NRI candidates

1. The admission of NRI candidates is made in the following programmes:

- (i) B.Sc. Agri. (Hons.) 4-year
- (ii) B.Tech. (Agril. Engg.) 4-year
- (iii) B.Sc. (Hons.) Home Science 4-year
- (iv) M.B.A.
- (v) M.B.A. Agribusiness
- (vi) M.Sc./M.Tech

The eligibility requirements for these programmes is the same as for general candidates. They are required to submit a copy of their certificate/transcript/marks sheet duly verified and certified by the Indian Embassy/High Commission in that country, stating that such examination is equivalent to the qualifying examination of Indian Universities. Alternatively, they may submit an application for obtaining the requisite equivalence certificate from the Registrar, PAU by paying a fee of US\$ 100 (non refundable) through a bank draft in favour of Comptroller, PAU, payable at any scheduled Bank at Ludhiana.

2. The admission of NRIs for the above programmes are primarily restricted to candidates having ancestral background in Punjab provided they fulfill other conditions. However, in the event of vacant seats after adjusting them, other candidates will be considered.

3. The NRI candidates educated and residing abroad seeking admission to various undergraduate programmes in PAU may be considered for admission without appearing in the entrance test of the university provided they have passed 12th standard level examination with 50% marks in aggregate in the subjects of Physics, Chemistry, Biology/Math. and English, subject to verification of its equivalence with the 10+2 examination (Medical/Non-Medical Group) of the Punjab School Education Board by an appropriate authority. The NRI candidates educated and residing abroad seeking admission to various Master's programmes/MBA Agribusiness in PAU may be considered for admission without appearing in the Entrance Test of the University provided they fulfil other prescribed qualifications.

4. The tuition fee (non-refundable) shall be payable by bank draft in US Dollars or any other currency acceptable by nationalised banks in India issued against the bank account in the account of NRI in the country in which he/she is residing or in the shape of bank draft in equivalent Indian currency issued against NRI account of the NRI maintained in India. In the latter case, the candidate is required to submit a certificate from the bank that the draft has been issued against the NRI account maintained by the NRI. The bank draft should be drawn in favour of the Comptroller, PAU., Ludhiana payable at State Bank of India, PAU, Ludhiana or any scheduled bank at Ludhiana, India. The hostel dues and other fees and funds as applicable will be charged in addition to admission fee as per University rules.

5. The candidates are required to produce a photo copy of citizenship certificate and passport duly attested by the Magistrate or Notary Public.

8. Rules and regulations for admission of foreign students

1. The candidates from foreign countries will be admitted in absentia against additional seats without appearing in the entrance test. Their admission will be regulated by the Indian Council of Agricultural Research,

New Delhi. They will be admitted only if they have valid student visa. They must be declared medically fit after examination as per Annexure F by the Doctor authorized by the Indian Embassy in the country from where the student wishes to seek admission. They should have full medical insurance before their admission to any programme in the University.

2. Their suitability for admission to undergraduate programmes will be assessed by the committee consisting of the Dean of the college concerned (Chairman), the Chairman Academic Affairs Committee and the Secretary Board of Studies of the college concerned (members) and for postgraduate programmes it will be of the Dean, Postgraduate Studies (Chairman), the Dean of the college concerned (member) and the Head of the concerned department (member).

3. All foreign students, other than those sponsored by the Govt. of India with suitable fellowship such as scholarship under Colombo Plan, ITEC programme, General Cultural Scholarship and Cultural Technical Exchange will be charged Institutional Economic Fee @ US \$ 4000 per year per student. The students coming for study/training as nominees of SAARC countries will be charged US \$ 2000 as economic fee per year per student. The institutional economic fee will be charged for the period prescribed for a particular programme. It will be for a period of two years for Master's programme and three years for Ph.D. programme. However, they will have to deposit tuition fee and other usual charges for the period they remain enrolled in the programme.

4. A postgraduate foreign student who has completed his/her degree requirements except submission of thesis and wishes to register for thesis submission only, can do so without paying tuition fee provided he/she must submit the rough draft of thesis by the last date of dropping the courses by postgraduate students prescribed for that particular semester failing which the student will have to deposit full tuition fee and other charges for that semester also and if the student fails to submit the final thesis during that semester he/she will have to register for the next semester and pay full fee.

ANNEXURE A

CRITERIA FOR ADMISSION OF OUTSTANDING SPORTSPERSONS

1. The order of preference for the selection of outstanding sportspersons for admission to various programmes in the constituent colleges of the Punjab Agricultural University shall be as per Annexure-B subject to fulfillment of the prescribed minimum requirements for admission to a particular programme.
2. The candidate qualifying for grade 'O' shall be placed at higher merit than the candidate qualifying for grade 'A'. Similarly, the candidate qualifying for grade 'A' shall be placed at higher merit than the candidate qualifying for grade 'B' and so on.
3. The candidate qualifying for grade 'O' (1) shall be placed at higher merit than the candidate qualifying for grade 'O' (2) and so on.
4. The candidate who has won first position shall be placed at higher merit than the candidate who has won second position in a competition of the same level. Similarly, second position shall be placed at higher merit than the third position in a competition of the same level, and so on.
5. If there is a tie between two or more candidates, then the tie shall be broken on the basis of merit in the entrance test or qualifying examination. If the tie still remains, then the candidate higher in age shall be admitted.
6. Only those sportspersons shall be eligible for admission against sports quota who have achieved minimum qualification as per criteria laid down in the PAU Prospectus in last two academic years. If the Candidate is found eligible as per above condition, then his/her achievements for last four academic years will be considered.
7. In case of individual sports disciplines, position of the candidate in an individual event shall be considered and not the position of the team as a whole.
8. The candidate who has represented twice will be preferred over candidates who represented once in a competition of same level in a game.
9. Only those candidates shall be admitted against sports quota who are eligible to participate in the University and Inter-Varsity Tournaments as per AIU rules.
Candidates seeking admission to Postgraduate Programme should have participated twice in the University Inter College Tournament and once in the All India Inter-Varsity/North Zone Inter-Varsity Tournament/All India Inter Agricultural Universities at undergraduate level.
10. The candidate shall be required to submit an affidavit in the prescribed form as per Annexure-C duly attested by the Magistrate Class I/II regarding his/her achievements in sports. If the candidate is a minor, an affidavit duly attested by the Magistrate Class I/II may be given by the parent/guardian in respect of his/her ward's/child's achievements in sports.
11. The admission against the sports quota shall be finalized on the basis of recommendations of the College Sports Committee and approved by the Dean of the College concerned and the DSW/Deputy Director Sports/ Joint Director Sports & Cultural Activities.
12. The Committee shall screen the applications through interview and ascertain competence of the candidates through actual trials. The coach of the concerned game may be co-opted as technical member, if necessary, for conducting the trials.
13. The admission of candidates against the sports quota shall be made on the explicit understanding that they shall attend the play fields regularly and shall also participate in the Inter-Class, Inter-College and Inter-Varsity tournaments. If they fail to do so, their admission shall be cancelled.
14. The candidates admitted to B.Sc. Agri. (Hons.), B.Sc. (Hons.) H.Sc. and B.Tech. (Agril. Engg.) programmes against the sports quota shall be enrolled in the NSO scheme of the three fold programme. The participation in Inter-Class, Inter-College Inter-Varsity, State and national tournaments shall be governed by the existing rules as applicable to other academic and co-curricular activities.
15. Only those games/disciplines will be considered for admission in which Punjab Agricultural University participates in the All India Inter-University Tournaments and holds Inter-College Tournaments. The list of these games/disciplines is given in Annexure-D.

ANNEXURE B
GRADING FOR SPORTSPERSONS

Grade 'O'

1. For winning any of the first three positions in the Olympic Games/World Games/World Cup Tournaments/Commonwealth Games/Asian Games/World University Games.
2. For representing India in the above mentioned Games/Tournaments.
3. For representing India in formal Test Matches/Tournaments abroad/within the country.

Grade 'A'

1. For winning any of the first three positions in the Senior National Championship/Inter-State or Inter-Zonal Championship.
2. For representing All India Combined Universities Teams for Seniors abroad/within the country.
3. For representing the National Teams for Juniors in the International Tournaments abroad/within the country.
4. For winning any of the first three positions in the All India Inter-University Tournaments representing PAU teams.
5. For winning any of the first three positions in the All India Inter-University representing University teams other than PAU.
6. For winning any of the first three positions in the National Championship/Inter-State or Inter-Zonal National Championship for Juniors.
7. For representing the National Teams for Schools (U-19) in the International Tournaments within the country/abroad.
8. For representing the National Teams for Schools (U-17) in the International Tournaments within the country/abroad.
9. For representing the National Teams (U-16/Sub Junior*) in the International Tournaments within the country/abroad.

Grade 'B'

1. For representing the State Teams in the Senior National Championships.
2. For representing Combined Universities Teams for Junior abroad/within the country.
3. For winning any of the first three positions in Zonal Inter-Varsity by representing PAU teams.
4. For winning first or second position in All India Inter-Agricultural Universities Sports & Games Meet.
5. For winning any of the first three positions in the Zonal Inter-Varsity by representing Universities other than PAU.
6. For winning any of the first three positions in the National championships for Schools (U-19).
7. For representing the Union Territory teams in the Senior National Championships.
8. For representing the State Junior Team in National Championships.
9. For representing the Union Territory Junior Team in National Championships.
10. For representing the Punjab Agricultural University Team in the All India Inter-Varsity/Zonal Inter-Varsity Championship.
11. For winning any of the first three positions in the Inter-District Championships for Seniors.
12. For winning any of the first three positions in the National championships for School (U-17).
13. For winning any of the first three positions in the National championships (U-16/Sub-Junior*).
14. For representing the Punjab Agricultural University in the All India Inter-Agricultural Universities Sports & Games Meet.
15. For representing University Teams other than the Punjab Agricultural University in All India Inter-Varsity/Zonal Inter-Varsity Championships.

16. For representing State Schools Teams in National School Games (U-19).
17. For representing the State Schools Teams (U-17) in National School Games.
18. For representing State Team in National (U-16/Sub-Junior*) Championship.
19. For representing the District Team in the Inter-district/State Tournaments for Seniors.
20. For winning any of the first three positions in State Junior Championships.
21. For winning any of the first three positions in State School Games (U-19).
22. For winning any of the first three positions in State School Games (U-17).
23. For winning any of the first three positions in State (U-16/Sub-Junior*) Championship.
24. For representing the Union Territory/Indian Public School Council (I.P.S.C.)/Central Board of Secondary Education (C.B.S.E.) and Vidya Bharti School Teams in the National School Games (U-19).
25. For representing the Union Territory/Indian Public School Council (I.P.S.C.)/Central Board of Secondary Education (C.B.S.E.) and Vidya Bharti School Teams in the National School Games (U-17).
26. For winning any of the first three positions in Indian Public School Council (I.P.S.C.)/Central Board of Secondary Education (C.B.S.E.) and Vidya Bharti National Championships (U-19).
27. For representing District Junior Team in the Jr. State Championship.
28. For representing District School Team in Punjab State School Games (U-19).
29. For representing District School Team in Punjab State School Games (U-17).
30. For representing district team in State games (U-16/sub-junior*)
31. For winning any of first three positions in Indian Public School Council (I.P.S.C.)/Central Board of Secondary Education (C.B.S.E.) and Vidya Bharti National Championship (U-17).
32. For winning any of the first three positions in Indian Public School Council (I.P.S.C.)/Central Board of Secondary Education (C.B.S.E.) and Vidya Bharti Zonal (Cluster) Tournament (U-19).
33. For winning any of the first three positions in Indian Public School Council (I.P.S.C.)/Central Board of Secondary Education (C.B.S.E.) and Vidya Bharti Zonal (Cluster) Tournament (U-17).
34. For winning any of the first two positions in Punjab Agricultural University Inter-College Tournaments.
35. For winning any of the first two position in the University Inter-College Tournaments than the Punjab Agricultural University.

Grade 'C'

1. For winning any of the first three positions in the Union Territory Championships for Seniors.
2. For representing the University/College Team in Union Territory Championships for Seniors.
3. For winning any of the first three positions in Union Territory Junior Championships.
4. For winning any of the first three positions in District Championships for Seniors.
5. For winning any of the first three positions in District Championships for Juniors or School Games (U-19, U-17).
6. For winning any of the first three positions in Union Territory School Games ((U-19, U-17).

* Minimum (U-16) age category will be treated as sub-Junior.

ANNEXURE C
Self Declaration

I, son/daughter of Shri aged about years, resident of have achieved the following distinctions in the field of sports, I further state that in case any of the achievements stated below is found to be false shall be liable to be punished under the provisions of the law. I hereby give an undertaking that if I am admitted to programme at the Punjab Agricultural University in the category of sportspersons, I shall regularly attend the playgrounds and if I fail to do so my admission shall be cancelled by the Punjab Agricultural University.

Sr. No.	Name of Sport/ Discipline	Name of Institution/ District/ State represented	Venue and name of the tournament with year and date.	Position won	Category of tournament (Senior/ Junior)
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Deponent

Verification

I, the above named deponent, solemnly declare and affirm that the contents of my above declaration are true to the best of my knowledge and nothing has been concealed therein.

Deponent

ANNEXURE D

LIST OF GAMES/DISCIPLINES WHICH WILL BE CONSIDERED FOR ADMISSION IN THE PAU ON SPORTS BASIS

Athletics (Men and Women)	Badminton (Men and Women)
Basketball (Men and Women)	Cycling (Men and Women)
Cricket (Men)	Handball (Men and Women)
Football (Men)	Kabaddi (Men)
Hockey (Men and Women)	Shooting (Men and Women)
Lawn Tennis (Men and Women)	Table Tennis (Men and Women)
Swimming and Water Polo (Men and Women)	Weight Lifting Power lifting and
Volleyball (Men and Women)	Best Physique (Men)

ANNEXURE E

INSTRUCTIONS/GUIDELINES FROM PUNJAB GOVERNMENT REGARDING COMPETENT AUTHORITY TO ISSUE RESIDENCE CERTIFICATE

1. Residence Certificate

Copy of letter No. 1/3/95-3PP/9619 dated 06.06.1996 from the Deputy Secretary, Personnel, Government of Punjab, Department of Personnel and Administrative Reforms (Personnel Policies-II Branch) to

- (i) All the Financial Commissioners to the Government of Punjab.
- (ii) All the Principal Secretaries/Administrative Secretaries to the Government of Punjab.
- (iii) All Heads of Departments, Commissioners of Divisions, Registrar, Punjab and Haryana High Court, District and Session Judges, Deputy Commissioners, Sub Divisional Officers (Civil) in the Punjab State.

Subject: Bonafide resident of Punjab-Guidelines for grant of Residence Certificate.

Sir/Madam

I am directed to invite your attention to the Punjab Government Circular Letter No. 1/3/95-3PP/2043, dated 29.1.1996 vide which the instructions were issued regarding simplification of procedure for obtaining the certificate of **Domicile** for the purpose of admission to educational institutions (including technical/medical institutions). The matter has been reconsidered in the light of judgement delivered by Hon'ble Supreme Court of India in the case of Dr. Pradeep Jain vs. Union of India and others (reported as AIR 1984-SC-1421) wherein it was held that instead of the word 'Domicile' the word 'Residence' be used in the instructions issued by the State Governments on the subject. Accordingly, it has been decided by the Government to revise the Government instructions referred to above as under:

Affidavit/Certificate and the
authorities competent to issue the same

(a) Citizens of India

(b) Produced an affidavit to the effect that they or their children/wards have not obtained the benefit of residence in any other State. Notary Public.

*Affidavit of the parents/Guardians/ to be attested by an Executive Magistrate/Oath Commissioner.

Categories

i) Candidates who have studied for a period of 5 years in Punjab or have studied in Punjab for 2 years just preceding the qualifying examination for the admission.

Certificate to be signed by the Headmaster/Principal of the recognised Schools/Colleges concerned.

ii) Children/Wards of :

a) The employee of Punjab Government posted in or outside Punjab State or working on deputation having atleast 3 years of service.

Certificate to be issued by the respective Head of the Department

b) The employees of government of India posted in Chandigarh or in Punjab in connection with the affairs of the Punjab Govt. for a period of 3 years.

-do-

c) The employees of State Government Institutions/ Undertakings who are posted in Chandigarh or in Punjab in connection with affairs of the Punjab government for a period of 3 years.

-do-

- | | |
|--|--|
| d) The employees having atleast 3 years of service in autonomous bodies/companies in which Punjab Government has 20% or more shares: | Certificate to be issued by the respective Head of the Department |
| iii) Children/Wards of the pensioners of Punjab Govt. irrespective of the fact that the original home of the retiree is in a State other than Punjab or he has settled after retirement in or outside Punjab. | PPO issued by the Accountant General Punjab |
| iv) Children/Wards of the persons who have settled in Punjab or had resided in Punjab for a period of at least 5 years at any time prior to the date of the submission of the application either in pursuit of a profession or holding of a job. | Certificate to be issued by the DC,ADC (R),ADC(D),SDO(Civil),GA to DC,DORG DRO, EM, Tehsildar. Commissioners of Municipal Corporations of Amritsar, Jalandhar and Ludhiana |
| v) Children/Wards of persons who have held immovable property in Punjab for a period of five years. The | DC,ADC(R),ADC(D),SDO(Civil),GA to DC,DORG,Tehsildar/DRO based on property should be in the name of the parents/ copies of jamabandi Revenue Record, guardians or the candidate himself. Municipal Record, Registered deeds or any other document to the full satisfaction of the DC. |
| vi) Persons who were born in Punjab and produced a certificate to that effect. | As per category (iv) above. |

For the purpose of uniformity for issuing the certificate of Residence in the case of various categories to be issued by the competent Authorities, proforma have been prescribed which are enclosed herewith. After careful consideration it has also been decided to delete the D.T.O. included among the certifying authorities against category (iv) & (vi) of the policy instructions dated 29.01.1996. The receipt of this letter may please be acknowledged.

Sd/-
Karam Chand Ahuja
Deputy Secretary, Personnel

Specimen formats of Residence Certificate for the categories mentioned in guidelines issued by the Punjab Government are given in the Prospectus. The candidate should furnish the certificate as applicable to them.

- | | |
|--|--|
| 1. * Self declaration certificate duly signed by the Parents/Guardians in place of Affidavit. | |
| 2. The employees borne on the establishment of Punjab and the Haryana High Court discharging duties in connection with the affairs of the State of Punjab having at least three years of service who have not availed this facility from their parent State and State of Haryana and U.T., Chandigarh. | Certificate to be issued by the Head of the Department of the Punjab and Haryana High Court. |

(issued vide no. 1/3/95-3PP2/1530 Government of Punjab, Department of Personnel (Personnel Policies-II Branch), Chandigarh dated 14.12.2011).

ANNEXURE F

FORMAT OF CERTIFICATE FOR MEDICAL EXAMINATION OF FOREIGN STUDENTS

1. Name _____
3. Sex _____ 4. Height _____

2. Age _____
5. Weight _____

Pulse _____

Chest _____

B.P. _____

CVS _____

R.R. _____

H.R. _____

Eye Examination :

Rt. Eye _____

Lt. Eye _____

Colour Vision _____

Hb. _____

ESR _____

URINE COMPLETE EXAMINATION

RANDOM BLOOD SUGAR _____

RENAL FUNCTIONS

B.UREA

S. CREATININE

ECG

X-RAY CHEST

HIV.

HbSAg

It is certified that I have carefully examined Mr/ Ms. _____ son/daughter of
Mr _____ and he/she has no disease or mental or bodily infirmity unfitting him/her
for admission to _____ programme in India.

Dated _____

(Signature of Medical Officer
authorised by the Indian Embassy)

Paste Passport size
photograph first with
gum and then get
attested by Medical
Officer conducting
medical test

Signature of the Candidate

CHAPTER IV

INSTRUCTIONS/REGULATIONS REGARDING RAGGING

(According to the Supreme Court judgement in SLP by Vishwa Jagriti Mission in 2001)

Ragging is "Any disorderly conduct whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness any other student, indulging in rowdy or undisciplined activities which causes or is likely to cause annoyance, hardship or psychological harm or to raise fear or apprehension thereof in a fresher or a junior student or asking the students to do any act or perform something which such student will not in the ordinary course and which has the effect of causing or generating a sense of shame or embarrassment so as to adversely affect the physique or psyche of a fresher or a junior student."

However, according to Raghavan Committee observations ragging has several aspects with among others psychological, social, political, economic, cultural and academic dimensions.

- Any act that prevents, disrupts or disturbs the regular academic activity of a student should be considered with in the academics related aspect of ragging; similarly, exploiting the services of a junior student for completing the academic tasks assigned to an individual or a group of seniors is also an aspect of academics related ragging prevalent in many institutions.
- Any act of financial extortion or forceful expenditure burden put on a junior student by senior students should be considered an aspect of ragging for ragging economic dimensions.
- Any act of physical abuse including all variants of it : sexual abuse, homosexual assaults, stripping, forcing obscene and lewd acts, gestures, causing bodily harm or any other danger to health or person can be put in the category of ragging with criminal dimensions.
- Any act or abuse by spoken words, e-mails, snail-mails, public insults should be considered with in the psychological aspects of ragging. This aspect would also include deriving perverted pleasure, vicarious or sadistic thrill from actively or passively participating in the discomfiture to others; the absence of preparing 'freshers' in the run up to their admission to higher education and life in hostels also can be ascribed as a psychological aspect of ragging - coping skills in interaction with seniors or strangers can be imparted by parents as well. Any act that affects the mental health and self confidence of students also can be described in terms of the psychological aspect of ragging.
- The human rights perspective of ragging involves the injury caused to the fundamental right to human dignity through humiliation heaped on junior students by seniors; often resulting in the extreme step of suicide by the victims.

Instructions/regulations

- Ragging is not ice-breaker for the fresher and not a harmless fun but cuts deep into the mental health of the ragged.
- Ragging obtaining in educational institutions is neither a means of familiarizations nor an introduction with 'freshers', but a form of psychopathic behaviour and a reflection of deviant personalities, which reproduces the entrenched power configurations prevalent in the civil society.
- Migration certificate of students should mention whether any punishment had been meted out for ragging in previous institution.

- An annual undertaking to be signed by each student whether fresher or senior, and his/her parent(s) jointly stating that each of them have read the relevant instructions/regulations against ragging as well as punishments, and that if the ward has been found guilty, he/she should be proceeded against (Specimen of Undertaking given at the back of this page)
- Undertaking should be provided in English as well as in the vernacular language.
- The burden of proof will lie on the perpetrator and not on the victim to prove that ragging did not take place.
- Punishment to be meted out will be exemplary and justifiably harsh.

Punishments

Depending upon the severity of the case, following punishments may be awarded :

- suspension from attending the classes
- individual or collective fines
- withholding/withdrawing scholarships, fellowship and other benefits
- debarring from appearing in any test/examination and other evaluation process
- withholdings results
- debarring from representing the institution in any national and international meet, tournament, youth festival, etc.
- suspension/expulsion from the hostel
- rustication from the institution for periods varying from one or more semesters
- cancellation of admission
- expulsion from the institution and consequent debarring from admission to any other institution
- recommendation of registration of F.I.R. against the ragger under the various provisions of Indian Penal Code

UNDERTAKING NOT TO INDULGE IN RAGGING

We _____ (Candidate's name), aged _____ Yrs and Sh. _____ (Father's name) and Ms _____ (Mother's name) residents of _____ do hereby give an undertaking that each of us have read the relevant instructions/regulations against ragging, as well as punishments given in the prospectus and that if the candidate has been found guilty, he/she may be proceeded against.

DEPONENTS

1.....
(Signature of Candidate)
2.....
(Signature of Father)
3.....
(Signature of Mother)

VERIFICATION :

We, the above named deponents, solemnly declare and affirm that the contents of above undertaking are true to the best of our knowledge and nothing has been concealed therein.

DEPONENTS

1.....
(Signature of Candidate)
2.....
(Signature of Father)
3.....
(Signature of Mother)

OR

ਲਿਖਤੀ ਜ਼ਿੰਮੇਵਾਰੀ ਦਾ ਨਮੂਨਾ

ਅਸੀਂ _____ (ਉਮੀਦਵਾਰ ਦਾ ਨਾਂ), ਉਮਰ _____ ਸਾਲ, ਸ਼੍ਰੀ _____ (ਪਿਤਾ ਦਾ ਨਾਂ) ਅਤੇ ਸ਼੍ਰੀਮਤੀ _____ (ਮਾਤਾ ਦਾ ਨਾਂ) ਵਸਨੀਕ ਆਪਣੇ ਵਲੋਂ ਲਿਖਤੀ ਜ਼ਿੰਮੇਵਾਰੀ ਲੈਂਦੇ ਹਾਂ ਕਿ ਅਸੀਂ ਰੈਗਿੰਗ ਵਿਰੋਧੀ ਹਦਾਇਤਾਂ/ਨਿਯਮ ਅਤੇ ਉਲੰਘਣਾ ਕਰਨ ਦੀਆਂ ਸਜ਼ਾਵਾਂ ਜਿਹੜੀਆਂ ਪ੍ਰਾਸਪੈਕਟਸ ਵਿੱਚ ਦਰਜ ਹਨ, ਪੜ੍ਹ ਲਈਆਂ ਹਨ। ਜੇ ਉਮੀਦਵਾਰ ਇਹਨਾਂ ਦੀ ਉਲੰਘਣਾ ਕਰਨ ਦਾ ਦੋਸ਼ੀ ਪਾਇਆ ਜਾਂਦਾ ਹੈ ਤਾਂ ਉਹ ਸਜ਼ਾ ਦਾ ਭਾਗੀ ਹੋਵੇਗਾ।

ਬਿਆਨਕਰਤਾ

1.
(ਉਮੀਦਵਾਰ ਦੇ ਹਸਤਾਖਰ)
2.....
(ਪਿਤਾ ਦੇ ਹਸਤਾਖਰ)
3.....
(ਮਾਤਾ ਦੇ ਹਸਤਾਖਰ)

ਤਸਦੀਕ :

ਅਸੀਂ ਉਪਰੋਕਤ ਬਿਆਨਕਰਤਾ ਸਵੈ-ਘੋਸ਼ਣਾ ਕਰਦੇ ਹਾਂ ਕਿ ਇਸ ਲਿਖਤੀ ਜ਼ਿੰਮੇਵਾਰੀ ਵਿਚ ਦਰਸਾਏ ਤੱਥ ਸਾਡੀ ਜਾਣਕਾਰੀ ਅਨੁਸਾਰ ਦਰੁਸਤ ਹਨ ਅਤੇ ਇਨ੍ਹਾਂ ਵਿਚ ਕੁਝ ਵੀ ਛੁਪਾਇਆ ਨਹੀਂ ਗਿਆ ਹੈ।

1.
(ਉਮੀਦਵਾਰ ਦੇ ਹਸਤਾਖਰ)
2.....
(ਪਿਤਾ ਦੇ ਹਸਤਾਖਰ)
3.....
(ਮਾਤਾ ਦੇ ਹਸਤਾਖਰ)

CHAPTER V

DETAILS OF FEES

1. University Fees (for all Colleges)

University admission fee (to be charged every time a student seeks admission to a given programme) Rs. 7735/-

University re-admission fee (to be charged at the time of re-admission after the name of the student has been struck off the rolls/ dropped from the University under Semester Rule 7.64(a)

For general category Rs. 3005/-

For NRI \$ 3145/-

Library service charges (to be collected from Undergraduate and Postgraduate students at the time of fresh admission)
- Undergraduate

Rs. 625/-

- Postgraduate

Rs. 1585/-

Thesis/project report fees :

Ph.D. Rs. 2060/-

M.Sc./M.Tech/M.B.A./M.B.A. Agribusiness
(To be charged at the time of submission/re-submission of thesis or project report)

Rs. 1250/-

Viva-voce examination fee (to be charged when a postgraduate student is required to appear in the final oral examination in the following semester after submission of the thesis)

Rs. 1250/-

Migration fee for the students migrating to PAU

Rs. 12,430/-

Note: A student who has completed his degree requirements except submission of thesis and wishes to register for thesis submission only, can do so without paying tuition fee provided he/she must submit the rough draft of thesis by the last date of dropping the courses by P.G. student prescribed for that particular semester failing which the student will have to deposit full tuition fee for that semester within two working days from the last date of dropping the courses by PG students and with prescribed late fee within further period of two working days. If he/she fails to deposit the tuition fee, his/her registration for the semester will be cancelled by the Registrar on the recommendation of the Dean concerned and he/she will have to register for the next semester by paying the full fee as well as tuition fee of the cancelled semester

2. College Fees - Annual (for all Colleges)

Admission fee (for each class in each college at the time of admission/registration in the beginning of each academic year)

Rs. 300/-

Re-admission fee (to be charged at the time of re-admission after a student has been dropped from the rolls)

Rs. 775/-

Sports and Youth Welfare Fund	Rs. 300/-
Red Cross Fund	Rs. 170/-
Students' Aid Fund	Rs. 170/-
*Music Club Fee	Rs. 170/-
*Fine Arts and Photography Club Fee (*To be charged only from those students who join music, fine arts and photography clubs)	Rs. 170/-
Students' Home Club Fee	Rs. 70/-

3. College and Library Securities and Fees (for all Colleges)

College Library Security (refundable) (payable at the time of first admission to a degree/diploma programme)	Rs. 2660/-
Book Bank Security (refundable) (for fresh admission only)	Rs. 1250/-
College Library Fee (per semester)	Rs. 300/-
Book Bank Fund (per semester) (to be charged from the students of the constituent colleges where book bank facility exists)	Rs. 300/-

4. Other Charges (for all Colleges)

Registration with late fee	Rs. 615/-
Course Addition/Withdrawal Fee	Rs. 170/-
Supplementary Examination Fee (per course)	Rs. 365/-
Re-evaluation of end of term exam./supplementary exam. Fee (per course)	Rs. 550/-
Special course Fee (For graduating and pre-graduating students)	Rs. 1210/-

5. Tuition fees (Semester-wise)

B.Sc. Agri. (Hons.) 4-year/B.Sc. Agri. (Hons.) 6-year	Rs. 5935/-
B.Tech. (Agril. Engg.)	Rs. 18020/-
B.Sc. (Hons.) Home Sc. 4-year/B.Sc. (Hons.) H.Sc. 6 year	Rs. 4510/-
M.Sc./M.Tech.	Rs. 7380/-
M.B.A.	Rs. 26570/-
M.B.A. Agribusiness	Rs. 18020/-
Ph.D.	Rs. 9020/-
B.Sc. (Hons.) Fashion Designing	Rs. 16635/-
B.Sc. Nutrition & Dietetics	Rs. 13310/-
B.Sc. Bio-technology (Hons.)	Rs. 42350/-
B.Tech. Food Technology (Hons.)	Rs. 42350/-
2-year Certificate Course in Agriculture at Institute of Agriculture, Gurdaspur	Rs. 8470/-

Master of Computer Applications 3-year

Admission fee	Rs. 3325/- (one time)
Internet charges	Rs. 6655/-(Annual)
Infrastructure Development charges	Rs. 13310/-

Tuition Fees	Rs. 19965/-
Laboratory Charges	Rs. 6050/-
Ph.D. Biotechnology	Rs. 54450/-
M.Sc. Fashion Designing	Rs. 19250/-
PG Diploma in Agricultural Journalism and Mass Communication	Rs. 13310/-
Master in Journalism and Mass Communication	Rs. 18150/-
M.Sc. Bio-Technology	Rs. 54450/-
5-year Integrated M.Sc. (Hons.) programme in the disciplines of Chemistry, Biochemistry, Microbiology, Botany and Zoology	
Tuition fee per semester (for first six semesters)	Rs. 31760/-
Tuition fee per semester (for further semesters)	Rs. 40835/-
Examination Fee for UG & PG programmes	Rs. 160/-
External Examination fee	Rs. 330/-
6. Other funds to be charged semester-wise in all colleges and classes	
University Magazine Fund	Rs. 170/-
Amalgamated Fund	Rs. 615/-
College Co-curricular Activities Fund	Rs. 170/-
Medical Fund	Rs. 300/-
N.C.C. Amenity Fund (to be charged from B.Sc. Agri. (Hons.) and B.Tech. (Agril. Engg.) students who join N.C.C. Students who have completed two years N.C.C. training in one of the colleges of the University or before their admission to the University, are exempted from this fund as they are exempted from N.C.C. training)	Rs. 170/-
Cycle Stand Fund (to be charged from those students who use college cycle stand)	Rs. 145/- for cycles
	Rs. 665/- (for scooters/Motor-cycle)
7. Hostel Charges (for all Colleges)	
(a) Annual	
Hostel Security (refundable) (for fresh admission)	Rs. 3110/-
Hostel maintenance Fund	Rs. 615/-
Utensils, Crockery and Breakage Fund	Rs. 230/-
(b) Semester-wise	
Room Rent (cubicle)	Rs. 1330/-
Room Rent (dormitory)	Rs. 665/-
Cycle Stand Fund (to be charged from those students who use hostel cycle shed)	Rs. 170/- for cycles
	Rs. 665/- (for scooters/ motor-cycle)

Common Room Fund	Rs. 300/-
Electricity Fund	Rs. 1150/-
Telephone Charges	Rs. 145/- (per semester)

Summer Break Charges

Room rent (Cubicle)	Rs. 445/-
Room rent (dormitory)	Rs. 255/-
Electricity fund	Rs. 385/-
Common room fund	Rs. 120/-
Telephone charges	Rs. 70/-
Medical fund	Rs. 120/-
Cycle stand fund (to be charged from those students who use hostel cycle shed)	Rs. 70/- (for cycle) Rs. 255/- for scooter/motor-cycle
Students' Home Club fee	Rs. 30/-

International Students Hostel charges in INR (Rs.)

A. For regular foreign students pursuing postgraduate courses

Hostel security (one time deposit & refundable)
to be collected at the time of first allotment : Rs. 10,000/-

Charges	Per student per semester on double occupancy (twin sharing) basis*	Per student per semester on single occupancy basis or for family
Room rent	18,000/-	42,000/-
Electricity charges	15,000/-	18,000/-
Hostel maintenance, repair & maintenance of electrical gadgets and common facility fund etc.	6,000/-	6,000/-
Total	39,000/-	66,000/-

Note : No extra charges will be levied for semester breaks.

B. For international students/visitors coming to PAU for short courses/fellowships/assignments

Charges	Double occupancy (twin sharing) basis	Single occupancy basis or for a family
Room rent per person per day	1,000/-	1,500/-
Room rent per person per week	6,000/-	9,000/-
Room rent per person per month	20,000/-	30,000/-

The payment of stay for more than two weeks are to be made in advance or a letter of sponsorship from PAU to be submitted at the time of request/application.

Note :

1. The fee structure at the time of admission will remain constant throughout the programme of the study.
2. If the electricity bills are in excess of the electricity fund realisations, the Director Students' Welfare is authorized to realise the additional charges proportionately from the hostellers through the Dean of the college concerned.
3. The securities not claimed for three semesters succeeding the end of the semester in which the student leaves the college either by completing particular degree/diploma programme or otherwise, shall lapse.
4. All claims for refund of hostel security shall be entertained through the Dean of the college concerned.

Summary of the fees to be paid at the time of admission

College/Programme	Non-Boarder (Approximately)	Boarder
College of Agriculture		
B.Sc. Agri. (Hons) 4-year	Rs. 21560	Rs. 24665
B.Sc. Agri. (Hons.) 6-year	Rs. 21230	Rs. 24335
M.Sc.	Rs. 23635	Rs. 27405
Ph.D.	Rs. 25275	Rs. 29045
B.Sc. Biotech. (Hons) 4-year	Rs. 57975	Rs. 61080
B.Tech Food Technology (Hons.) 4-year	Rs. 57975	Rs. 61080
2 year Certificate Course in Agriculture	Rs. 23765	—
M.Sc. Biotechnology	Rs. 70705	Rs. 74475
Ph.D. Biotechnology	Rs. 70705	Rs. 74475
College of Agricultural Engineering & Technology		
B.Tech. (Agril. Engg.)	Rs. 33815	Rs. 36920
M.Tech.	Rs. 22635	Rs. 27405
Ph.D.	Rs. 25275	Rs. 29045
Master of Computer Applications	Rs. 57825	Rs. 60930
College of Home Science		
B.Sc. (Hons.) H.Sc. 4-year/6 year	Rs. 20800	Rs. 23340
M.Sc.	Rs. 24630	Rs. 27070
Ph.D.	Rs. 26415	Rs. 29375
B.Sc. (Hons.) Fashion Designing 4-year	Rs. 32925	Rs. 35365
B.Sc.(Hons.) Nutrition and Dietetics 4-year	Rs. 29600	Rs. 32040
M.Sc. Fashion Designing	Rs. 36675	Rs. 38940
College of Basic Sciences & Humanities		
M.Sc.	Rs. 22085	Rs. 25855
MBA	Rs. 41275	Rs. 45045
MBA Agribusiness	Rs. 32725	Rs. 36495
Ph.D.	Rs. 33725	Rs. 37495
5-year Integrated M.Sc. (Hons.) programme	Rs. 46795	Rs. 50565
Master in Journalism and Mass Communication	Rs. 32855	Rs. 36625
PG Diploma in Agricultural Journalism and Mass Communication	Rs. 28015	Rs. 31785

Note : Hostel security, cycle stand, music, fine arts and photography clubs fees and N.C.C. amenity fund shall be extra.

FEE CONCESSION

(Applicable to all Constituent Colleges)

The Deans of Constituent Colleges can remit half tuition fee to 10 per cent of students in each class on merit-cum-means basis in order to help such students as have financial difficulty in continuing their studies in the college. Application for the concession should be made to the Dean with details of the financial position of the family. The application should be supported by certificates from responsible persons (Gazetted Officer, Head of the Institution last attended or a teacher in the College) having personal knowledge of the financial position of the student. The half fee concession is granted subject to the condition that the student will be regular in attendance and that he/she will show satisfactory progress in his/her studies. The concession may be withdrawn on misconduct, irregularity in attendance or failure in any of the courses in an examination.

The students participating in sports and co-curricular activities in official events recognized by the AIU/ICAR/National Federations/Associations shall be given the following concession :

- | | | |
|-----|--|--------------------------------------|
| (a) | Sportsmen/Women/Artists who participate in an officially sponsored International Competitions or 1st, 2nd and 3rd position in Sr. National/All India Inter-Varsity in Sports tournaments/Youth Festivals. | Full fee concession and free lodging |
| (b) | Sportspersons/Artists who are Semi-finalist in All India Inter-Varsity/1st or 2nd position in Zonal Inter-Varsity/1st or 2nd position in All India Inter-Agril. Universities/1st or 2nd position in Senior State Tournaments/ Competitions in Sports or Youth Festival/ participation in Senior National/Combined Universities/Junior National Tournaments/ competitions | Full fee concession |
| (c) | Sportspersons/artists who win 1st position in Punjab State Inter-varsity/1st or 2nd position in Junior State/3rd or 4th position in Zonal Inter-Varsity/3rd position in Senior State Championship/tournament in sports or Youth Festival | Half fee concession |

The concession will be given to only those students who have participated in the competitions organized by AIU/ICAR/State Associations/National Federations.

The Committee consisting of the following will consider eligible students for the above concessions and make its recommendations to the Director Students' Welfare. The Director Students' Welfare will submit these recommendations to the Vice-Chancellor for his consideration/approval. After getting approval of the Vice-Chancellor, the Dean of the College concerned will issue necessary orders regarding fee concession to the students and the Director Students' Welfare will issue orders for free lodging to the students in the hostel.

Dean of the College	Chairman
Director Students' Welfare	Member
Secretary, Sports Committee of the College	Member/Secretary

Note :

- i. The above concessions may be withdrawn on account of mis-conduct and indiscipline on the part of the students.

- ii. These concessions will not be granted to the students who are on 'Scholastic/Conduct Probation. The students who are re-admitted after having been dropped under semester Rule 7.6.4 (b) will not be eligible for these concessions during the first year of their re-admission.
- iii. The students who have won the above positions during an academic session will be eligible for full fee concession and/or free lodging during the following academic session. The Dean of the college concerned will invite applications from the eligible students during the second semester of the academic session and the concession will be granted for the following academic session.

The fee concession is also granted to the dependant wards of employees/retirees of P.A.U. Full tuition fee to first child and half tuition fee concession to second and other children if any.

Note : The above concession will not be applicable to NRI and self-supporting programme candidates.

CHARGES FOR VARIOUS TYPES OF CERTIFICATES

Degree in absentia (with folder)	Rs. 290/-	+ Rs. 145/- & Rs. 120/- as postal charges for foreign countries and within India respectively.
Degree in absentia (without folder)	Rs. 190/-	-do-
Inter University Migration Certificate	Rs. 190/-	+Rs. 145/- as postal charges for foreign countries.
Duplicate Degree	Rs. 990/-	-do-
Duplicate Provisional Degree Certificate	Rs. 485/-	-do-
Duplicate Trimester/Semester Report	Rs. 190/-	-do-
Duplicate Certificate for Gold Medal	Rs. 190/-	-do-
Duplicate copy of Merit Certificate	Rs. 190/-	-do-
Duplicate copies of various types of Certificates at College Level	Rs. 190/-	-do-
Duplicate copy of Sports Certificate	Rs. 130/-	-do-
Duplicate/Incomplete Transcript of Academic Record		
1st Duplicate/Incomplete	Rs. 485/-	-do-
2nd Duplicate/Incomplete	Rs. 485/-	-do-
3rd Duplicate/Incomplete and onwards	Rs. 485/-	-do-
Lamination charges for		
Provisional Degree Certificate	Rs. 100/-	To be collected by Deans alongwith other charges
Degree Certificate	Rs. 100/-	
Transcript	Rs. 100/-	
Charges for Verification of educational qualifications from Private Institutions and credencial agencies	Rs. 550/-	
Charges for Authentication of various documents	Rs. 190/- per copy	
Charges for authentication/supplying information to other institutions	Nil	No Postal charges
Charges for changing the name of the student and/or his/her father's/mother's name in the PDC/Degree and Transcript	Rs. 1950/-	

Details of fee for NRI students

	B.Sc. Agri. (Hons) 4-yr programme	B.Tech. (Agril. Engg.) 4-yr programme	B.Sc. (Hons.) H.Sc. 4-yr programme	M.B.A	M.B.A. Agribusiness	M.Sc.
Admission fee	US\$ 6550	US\$ 7832	US\$ 3866	US\$ 4285	US\$ 4295	US\$ 3866
1st yr	US\$ 2145	US\$ 2904	US\$ 1292	US\$ 7815	US\$ 7832	US\$ 2568
2nd yr	US\$ 2145	US\$ 2904	US\$ 1292	US\$ 7815	US\$ 7832	US\$ 2568
3rd yr	US\$ 2145	US\$ 2904	US\$ 1292	–	–	–
4th yr	US\$ 2145	US\$ 2904	US\$ 1292	–	–	–
Total	US\$ 15130	US\$ 19448	US\$ 9034	US\$ 19915	US\$ 19959	US\$ 9002
Fee for each additional semester	US\$ 1160	US\$ 1452	US\$ 649	US\$ 3895	US\$ 3921	US\$ 671

Note :

1. The candidates shall deposit the total fee either in lump sum for the entire study period or in instalments (year-wise) within six working days of the admission as non-refundable tuition fee.
2. Other charges in Indian currency etc.

IMPORTANT

(Applicable to all students including NRIs)

Note :

1. The University reserves the right to enhance the rates of fees and funds from time to time.
2. The entire fee collected from the student, after deduction of the processing fee of Rs. 1,000/- (Rupees one thousand only) shall be refunded and returned to the student/candidate withdrawing from the programme provided the seat consequently falling vacant has been filled by another candidate on the waiting list by the last date of admission.

CHAPTER VI

REGULATIONS REGARDING NCC, NSO AND NSS

Every student in first year of Bachelor's degree course is required to participate in any one of the three programmes namely NCC, NSO and NSS subject to the condition that NSO will be restricted to only those students who show marked proficiency in sports. The programme of NCC, NSO shall be optional for the students other than those in the first year. The foreign nationals are exempted from these programmes. Immediately after admission of the University in the first semester, the Dean concerned/Director Students' Welfare shall complete the enrolment of students under the particular scheme and forward the same to the Registrar for completing the personal files of the students. The students enrolled in a scheme, shall not ordinarily be allowed to change it afterwards.

(a) Regulations regarding NCC

1. Every male student admitted to the undergraduate programme (excluding those selected for NSO and NSS) is required to enrol for NCC for the first two semesters and 40 hours of parade shall be held every semester. Every student shall attend a minimum of 75% parades held in a year. The Vice-Chancellor may grant exemption on medical grounds. The applications for exemption shall, after the scrutiny by the Company Commander (NCC Officer), come through the Dean of the College concerned supported by a medical certificate from the University Medical Officer.
2. The students undergoing compulsory NCC training shall attend one annual training camp during the two semesters of training.
3. A student who fails to attend 75% parades in a semester shall be awarded US grade and shall be given a warning and required to makeup the deficiency in the following semester. If he fails to complete the deficiency and is awarded US grade in the second semester, he shall be registered for the third semester for the purpose of making up NCC deficiency only and not for any academic course. In exceptional cases, the Dean may relax this condition if the students unable to obtain S grade in the second semester due to genuine valid reason(s).
4. A student who has received NCC training in Senior Division in PAU/any other institute for a complete academic year, may be exempted from NCC training for the period already completed by him.
5. On completion of two semesters of training and one annual training camp, the student may be discharged from NCC on submitting an application to the Company Commander.
6. On completion of training, every cadet will be graded as Excellent, Very Good, Average and Below Average keeping in view the discipline, leadership qualities, keenness in training, attendance and the proficiency in tests held by the Ministry of defence. The grading will be intimated to the Registrar for incorporating the grades in the transcripts.
7. Each student enrolled for NCC will be charged the prescribed NCC Amenity Fund per semester which will be utilised for NCC activities only. This fund will be operated by the Dean of the college concerned on the recommendations of NCC officer for various activities related to NCC.
8. In the event of emergency, if any of the requirement of compulsory NCC training cannot be arranged by NCC authorities, the Vice-Chancellor may suspend such regulations concerning NCC training as cannot be enforced.

(b) Regulations Regarding NSO

1. All students admitted to undergraduate programmes and selected for NSO, shall be required to enrol for NSO in the first two semesters of their studies.

2. Every student undergoing NSO training shall devote 150 hours to actual play in a year. Failure to attend 75% training period during a semester, shall make him/her liable for award of 'US' grade which will follow a warning to makeup the deficiency in the following semesters. If a student fails to obtain 'S' grade at the end of second semester, he/she shall be registered for third semester only for making up deficiency of NSO training and not for any academic course. In exceptional cases, the Dean may relax this condition if the student is unable to obtain 'S' grade in the second semester due to genuine valid reason(s).
3. Attendance of 75% training period in a year is compulsory. The Vice-Chancellor may grant exemption on medical grounds. Application for exemption after scrutiny by NSO incharge should come through the Director Students' Welfare supported by a medical certificate from the University Medical Officer.
4. Every student undergoing NSO training will attend one coaching camp of 20 days within first two semesters of training failing which he/she shall be registered for the next semester to enable him/her to make-up deficiency of the camp and not for any academic course.
5. A student who has undergone NSO training in some other college/institute for a complete academic year, may be exempted by the Director Students' Welfare from NSO training for the period already completed by him/her.
6. Every student on completion of two semesters of NSO training and one coaching camp, will be discharged from NSO, on submitting an application to the Director Students' Welfare.
7. On completion of NSO training, each trainee will be graded Excellent, Very Good, Fair and Average keeping in view his/her performance/achievement/proficiency in games as per the following criteria:

Sr. No.	Level of Achievement	Grading
1.	Trainees who just complete NSO requirements	Average
2.	Trainees who represent the class in the college Inter-Class Tournaments	Fair
3.	Trainees who represent the college team in the University Inter-college Tournaments	Good
4.	Trainees who represent the PAU team in the Intervarsity Tournaments	Very Good
5.	Trainees who represent State/Combined University team in National Tournaments	Excellent

This grading will be intimated to the Registrar by the Director Students' Welfare for incorporating the same in the transcript.

8. If a student becomes physically unfit for NSO training on medical grounds or due to accident or is dropped for any reason, Director Students' Welfare may temporarily exempt a student to complete the training in third semester on medical grounds or for being dropped for any reason.

(c) Regulations Regarding NSS

1. Every student enrolled under NSS shall be required to attend it for the first two semesters of his/her studies.
2. He/she has to put in minimum 120 hours per year, failure to do so shall earn 'US' grade followed by a warning to make-up the deficiency in the following semester. If a student fails to complete the deficiency and is awarded 'US' grade in second semester, he/she shall be registered for the third semester only for making up NSS

deficiency and not for any academic course. In exceptional cases, the Dean may relax this condition if the student is unable to obtain 'S' grade in the second semester due to genuine valid reason(s).

3. The Vice-Chancellor may exempt any student on medical grounds on the production of a medical certificate from the University Medical Officer duly recommended by Director Students' Welfare. The Director Students' Welfare may temporarily exempt the students to complete the training in the third semester on medical grounds or for being dropped for any reason.
4. Each student shall attend a 10 day-camp every year. The number of camp hours will be aside out of 120 hours that each student is to put in. A day at camp is calculated at 7 hours of service. Failure to attend this camp, will make the student liable for registration for the next semester only to enable him/her to make-up the deficiency of NSS camp and not for any academic course.
5. A student who has undergone NSS training in some other College/Institute for a complete academic year, may be exempted by the Director Student's Welfare from NSS training for the period already completed by him/her.
6. On completion of the programme, every student shall be graded as Excellent, Very Good, Good, Average and Below Average keeping in view the discipline, initiative, leadership qualities, keenness in training and attendance which will be intimated to the Registrar by the Director Students' Welfare for incorporating the same in the transcript.
7. For violation of any rules and regulation, disciplinary action may be taken by the Director Students' Welfare.

CHAPTER VII

SCHOLARSHIPS, STIPENDS AND FELLOWSHIPS (NOT APPLICABLE FOR SELF-SUPPORTING PROGRAMMES)

SCHOLARSHIPS :

(a) University Scholarships

Awarded to meritorious students of undergraduate students programmes on the basis of performance in the entrance examination/qualifying examination valued at Rs. 500/- p.m. The number of scholarships is determined by the Academic Council from time to time.

(b) Marketing Board Scholarships

The Punjab State Agriculture Marketing Board Awards merit-cum-means scholarships at the rate of Rs. 600/- p.m. district-wise and for Kandi areas for poor/deserving undergraduate students of the COA, COAE. These scholarships are awarded to the students hailing from rural areas of the Punjab state on fulfilment of prescribed conditions. The number of scholarships for B.Sc. Agri. (Hons.) and B. Tech. (Agril. Engg.) programmes are 2 and 1 respectively.

(c) ICAR Scholarships

The ICAR awards merit scholarships for undergraduate programmes for full duration of the degree programme subject to fulfilment of prescribed conditions. The value of scholarship is Rs. 1000/- p.m. and the number of scholarships is limited to 7-12% of the actual admission. These scholarships are available in B.Sc. Agri. (Hons.) B.Tech. (Agril. Engg.) and B.Sc. (Hons.) H.Sc. programmes.

(d) Other Scholarships

Some students may be granted interest free Loan Scholarships and National Loan Scholarships under scholarships scheme of Govt. of India on fulfilment of prescribed conditions.

(e) Sports Scholarships

The University awards sports scholarships @ Rs. 350/- p.m. on fulfilment of prescribed conditions. The number of scholarships is four for games of Hockey, Football, Athletics and Cricket. Similarly, four more scholarships are available for the games of Basketball, Wrestling, Table-Tennis, Body Building and Weight Lifting.

(f) Punjab Govt. Scholarships

The Punjab Govt. also provides assistance to students subject to fulfilment of prescribed conditions under the following schemes:

- (i) Post-Matric Scholarships scheme (Govt. of India)
- (ii) Scholarships scheme for backward class students
- (iii) Free ship scheme under State Scheduled Castes Welfare Department.
- (iv) Scholarship for students belonging to Ex-criminal Tribes.
- (v) National merit scholarship scheme.
- (vi) State merit scholarship scheme.
- (vii) Scholarship for Teacher's wards.

- (viii) Scholarship scheme for the wards to Terrorists/1984 riots affected families.
- (ix) Grant for the wards of serving/ex-serviceman.
- (x) Centrally Sponsored Scheme of Post Matric Scholarship to SC students.
- (xi) Post-Matric Scholarships for OBC Students.
- (xii) National Overseas Scholarship Scheme for SC Students for Higher Studies abroad.
- (xiii) Central Sector Scholarship Scheme of Top Class Education for SC Students.

Fellowships

1. The University offers fellowships to postgraduate students. The total number and value of scholarship for each department is determined by the Academic Council/Board Management. The detail of fellowships is as follows :

Name of the College	Programme/ Class	Number of fellowships	Value of fellowship
College of Agriculture, Basic Sciences & Humanities Home Science, and Agricultural Engineering & Technology	M.Sc./MBA M.Tech. 1st and 2nd year	One Fellowship in each discipline for the first 7 students and one additional fellowship for every 7 additional students or a part thereof provided the number of students is not less than 3.	Rs. 2000/- per month each
College of Agriculture, Basic Sciences & Humanities, Home Science and Agricultural Engineering & Technology	Ph.D.	One Senior Fellowship in each discipline	Rs. 3000/- per month

CHAPTER VIII

MERIT CERTIFICATES AND PRIZES

(A) MERIT CERTIFICATES

The University has instituted Merit Certificates for the students who have achieved an OCPA of 8.00 or more at the end of their Bachelor's or Master's Degree Programme.

The certificates will be awarded at the Annual Convocation.

(B) PRIZES (not applicable for self-supporting programmes)

Prizes are awarded to the outstanding students at the Annual College Functions. Two prizes are awarded based on the OCPA of each academic year provided the student has completed 36 credits in an academic year. One prize is awarded for highest OCPA in a course in Bachelor's degree programme.

CHAPTER IX

CRITERIA FOR AWARD OF FIRST AND SECOND DIVISION

On the successful completion of the programme, the student is classified into First and Second division as follows :

Programme	1st Div. (OCPA)	2nd Div. (OCPA)
Postgraduate Level	7.00 & above	6.50 to 6.99
Undergraduate Level	6.50 & above	5.50 to 6.49
Diploma/ certificate Course Level	6.50 & above	5.50 to 6.49

CHAPTER X

AWARD OF GOLD MEDALS/MEDALS

The University has instituted a number of Gold Medals/Medals for award to the students on fulfillment of certain prescribed conditions. These Gold medals/medals are conferred at the time of Annual Convocation of the University or Prize Distribution Function-cum-Convocation of the respective colleges. The detail is as under :

A. Undergraduate Programmes

1. One college level Gold Medal is awarded at the Convocation to the students securing highest OCPA (not less than 8.00) in the programmes mentioned below :

- (i) B.Sc. Agri. (Hons.)
- (ii) B.Tech. (Agril. Engg.)
- (iii) B.Sc. (Hons.) H.Sc.
- (iv) B.Sc. Biotechnology (Hons.)
- (v) B.Tech. Food Technology (Hons.)

2. Dr. P.N. Thapar Gold Medal

This Medal has been named after Dr. P.N. Thapar, the founder Vice-Chancellor of PAU who set very high standards and traditions by way of strict discipline and excellence in every field. This medal is awarded to the student who is adjudged as the best all round graduate of this University during a year.

3. Dr. Sukhdyal Nijhawan Medal

This Medal has been named after Dr. Sukhdyal Nijhawan, a Soil Scientist of International fame. This medal is awarded to a student who secures the highest OCPA (not less than 8.00) from amongst the students of B.Sc. Agri. (Hons.) in Soil Science.

4. Dr. Ram Dhan Singh Medal

This medal has been named after a great Plant Breeder of international fame. This medal is awarded to a student securing highest OCPA (not less than 8.00) from amongst the students of B.Sc. Agri. (Hons) in Crop Science in the subject of Plant Breeding and Genetics.

5. S.S. Labh Singh Medal

Professor Labh Singh was founder of LSS variety of Cotton Premier American Variety which revolutionised cotton production in the State. This medal is awarded to a student securing the highest OCPA (not less than 8.00) from amongst the students of B.Sc. Agri. (Hons.) in Crop Science in the subject of Agronomy.

6. ASPEE Medal

This medal is awarded to a student securing the highest OCPA (not less than 8.00) from amongst the students of B.Sc. Agri. (Hons.) in the subject of Plant Protection.

7. Dr. Jiwan Singh Sidhu Medal

This medal has been named after Dr. Jiwan Singh Sidhu who was former Head, Deptt. of Food Science & Technology, PAU, Ludhiana. This medal is awarded to B.Tech. Food Technology (Hons.) next to topper eligible student with OCPA not less than 8.00.

8. Dr. Jagdish Chand Tahkur

This Medal is awarded to the best student of B.Sc. Agri. (Hons.) programme in the elective subject of Horticulture.

B. Postgraduate Programmes

1. Sardar Kartar Singh Kahlon Gold Medal

This medal has been named after a great agriculturist who contributed immensely for the development of Horticulture in Punjab and reclaiming large tracts of waste land in the districts of Karnal, Jalandhar, Ferozepur and Ludhiana. This medal is awarded to a student who is adjudged as the best all round student in M.Sc. (Agri. Science) in the University during a year.

2. Dr. Avtar Singh Atwal Gold Medal

Dr. A.S. Atwal was a great administrator who played outstanding role for the development of PAU. He remained Dean, COA for 11 years. Under his leadership as Dean COA, this College was awarded institution Award 1977 by the federation of Indian Chambers of Commerce and Industry. He is the founder President of India Ecological Society. This medal is awarded each year to the best M.Sc./M.Tech. student of the University.

3. Bhai Bal Mukand Medal

Bhai Bal Mukand rendered outstanding service as an Assistant Professor of Mathematics and Physics. Agriculture College, Layallpur. He provided able leadership to his colleagues at a critical juncture of this premier institution of agricultural education in Punjab and contributed considerably to its present stage of development. This Medal is awarded to the overall best student securing the highest OCPA (not less than 8.00) in M.Sc. (Mathematics/Physics/Statistics).

4. Sardar Bahadur Lal Singh Medal

Sardar Bahadur Lal Singh was the first Director of Agriculture of Punjab and was responsible for establishing Agriculture College at Ludhiana which ultimately developed as the present PAU. In recognition of his services, Postgraduate laboratories have been named after him. This Medal is awarded to a student who secures the highest OCPA (not less than 8.00) in M.Sc. Pomology.

5. Dr. Sardar Singh Medal

Dr. Sardar Singh was a brilliant scholar in the subject of Entomology. He served various organizations of over 30 years and was Plant Protection Advisor as well as Director of Locust Control to Government of India. This medal is awarded to a student who secures the highest OCPA (not less than 8.00) in M.Sc. Entomology.

6. Sardar Iqbal Singh Dhillon Medal

Sardar Iqbal Singh Dhillon is one of the most eminent farmers of the State and has been awarded a title of 'Potato King' for promoting cultivation of potatoes in the State. This Medal is awarded to a student who secures the highest OCPA (not less than 8.00) in M.Sc. Plant Breeding and Genetics.

7. Dr. M.S. Randhawa Medal

Dr. M.S. Randhawa was the soul of this University. He was a great scientist, administrator, educationist, art critic and sports lover. This University owes special debt of gratitude to him for taking it to international heights. The faculty and students cherish the memory of his creative leadership as Vice-Chancellor. This medal is awarded to a student who writes best essay on 'Evolution of Life'.

8. Dr. Narinder Singh Randhawa Medal

Dr. N.S. Randhawa was a great Soil Scientist and an able administrator. He remained Director General of I.C.A.R. for 5 years and bagged many national and international awards. This Medal is awarded to the student who secures the highest OCPA (not less than 8.00) in M.Sc. Soil Science.

9. Dr. Gurbakhsh Singh Gill Medal

Dr. Gurbakhsh Singh Gill played a key role in making cultivation of New Mexican Dwarf Wheat Varieties a success in the State and was awarded Dr. Borlaug Gold Medal. This medal is awarded to the student who secures the highest OCPA (not less than 8.00) in M.Sc. Agronomy.

10. Dr. K. Kirpal Singh Medal

Dr. K. Kirpal Singh did a yeoman's service in rehabilitating the fruit industry in Punjab. He was the first Director of Extension Education in PAU and held this position for seven years. He also remained as Dean, Postgraduate Studies and bagged a number of awards including Padama Shree by Government of India in 1972. This Medal is awarded to the student who secures the highest OCPA (not less than 8.00) in M.Sc. Food Technology.

11. Lata Mahajan Chinnan Medal

This medal is awarded every year to the best 'girl athlete' of the University.

12. Dr. B.R. Sharma Medal

This medal has been named after Dr. B.R. Sharma who served on PAU faculty for many years and later on as Vice-Chancellor of Dr. Y.S. Parmar University of Horticulture and Forestry, Nauni, Solan. This medal is awarded to a student who secures the highest OCPA (not less than 8.00) in M.Sc. Vegetable Crops.

13. Shri Puran Anand Adlakha Medal

This Medal has been named after Shri Puran Anand Adlakha who was a Senior Professor of Botany at PAU. The Medal is awarded to the student with highest OCPA (minimum 8.00) based on the joint merit of the students in M.Sc. Botany, Zoology and Microbiology.

14. Dr. G.S. Sidhu Medal

This Medal has been named after Dr. G.S. Sidhu who served as Senior Principal Research Scientist, CSIRO, Food Research Laboratories, New Wales, Australia. This Medal is awarded to the student who secures the highest OCPA (not less than 8.00) in M.Sc. Biochemistry.

15. Dr. Gurmail Singh Dhaliwal Medal

This Medal has been named after Dr. Gurmail Singh Dhaliwal who was Professor of Ecology, College of Agriculture, PAU, Ludhiana. This Medal is awarded to M.Sc. Student who secured 2nd highest OCPA (not less than 8.00) in Entomology.

16. Dr. Manjit Singh Kang Medal

This Medal has been named after Dr. Manjit Singh Kang Vice-Chancellor of PAU, Ludhiana. This medal is awarded to a student who secures the highest OCPA (not less than 8.00) in M.Sc. Biotechnology.

17. Lala Sri Ram Ji Medal

Lala Sri Ram Ji dedicated his life to the growth of industry, agriculture, commerce in India. He was a great industrialist and guided many education, industrial and agricultural organizations. This medal is awarded to a student securing the highest OCPA (Not less than 8.00), in M.B.A. programme in the University.

CHAPTER XI

FORMULA FOR INTERCONVERSION OF OGPA/OCPA AND AGGREGATE PERCENTAGE OF MARKS UNDER THE TRADITIONAL SYSTEM OF EXAMINATION

The following formulae have been adopted by the University to determine the equivalence of each grade point average from 1 to 4/overall credit point average from 1 to 10 under the semester system in terms of the percentage of marks awarded under the traditional system of examination.

1. For conversion of Overall Credit Point Average (OCPA) into percentage of marks :

$$Y = 10 Z$$

Where Y = Percentage of marks in the traditional system.

Z = Overall Credit Point Average (OCPA) in 10.00 point system of evaluation

2. For conversion of Overall Grade Point average (OGPA) into OCPA :

(a) For Undergraduate programmes

$$Z = (50 - 10X + 5X^2) / 10$$

Where Z = OCPA in 10.00 point system of evaluation.

X = OGPA (maximum = 4.00) in the letter grade system of evaluation.

(b) For Postgraduate Programmes

$$Z = (25X - 15) / 10$$

Where Z = OCPA in 10.00 point system of evaluation.

X = OGPA (maximum = 4.00) in the letter grade system of evaluation.

Note : OCPA is out of 10.00 and OGPA is out of 4.00 where ever mentioned in the prospectus,

Unless otherwise specified.

CHAPTER XII

ACADEMIC CALENDAR FOR 1ST AND 2ND SEMESTER 2012-13 FOR ALL UNDERGRADUATE, POSTGRADUATE PROGRAMMES AND DIPLOMA AND CERTIFICATE COURSES AT LUDHIANA AND GURDASPUR

	1st Semester	2nd Semester
Meeting with advisors, registration and last date of payment of fees	20.07.2012	11.01.2013
Last date for registration with prescribed late fee except for new entrants	23.07.2012	14.01.2013
Last date for registration (without late fee) for new entrants only with the permission of the Registrar	27.07.2012	18.01.2013
Last date for registration (without late fee) for new entrants with permission of the Registrar on the recommendation of the Dean	03.08.2012	24.01.2013
Last date of adding a course	03.08.2012	24.01.2013
Last date for dropping a course		
i) Postgraduate students	24.08.2012	14.02.2013
ii) Undergraduate students	30.08.2012	21.02.2013
Mid-Semester Examination	05.10.2012 to 15.10.2012	29.03.2013 to 08.04.2013
Mid-Semester reports to Deans from teachers	18.10.2012	11.04.2013
End of Semester Examination	07.12.2012 to 17.12.2012	27.05.2013 to 06.06.2013
Submission of grades by the teachers to Heads	20.12.2012	10.06.2013
Submission of grades by the Heads to Deans	24.12.2012	14.06.2013
Submission of grades by the Deans to Registrar	28.12.2012	19.06.2013
Announcement of results	03.01.2013	25.06.2013
Supplementary examination	07.01.2013 to 14.01.2013	28.06.2013 to 04.07.2013
Submission of grades of supplementary examination by the Deans to Registrar	16.01.2013	08.07.2013
Announcement of results of supplementary examination	18.01.2013	10.07.2013
Semester Break	18.12.2012 to 9.01.2013	Till the beginning of the next academic session

BREAK UP

Total number of days	139	139
Total number of working days (excluding days of end of semester examination)	90	90

Note: If any of the above day happens to be a holiday, the particular event for that day will take place on the next working day except for the examination(s) which will be held on the prescribed day(s)

CHAPTER XIII

GENERAL INFORMATION, SYLLABUS AND MODEL QUESTIONS FOR ENTRANCE TESTS FOR ADMISSION TO VARIOUS UNDERGRADUATE AND POSTGRADUATE PROGRAMMES

ENTRANCE TEST:

Admission to the undermentioned Undergraduate and Postgraduate Programmes in the Punjab Agricultural University will be made through Entrance Tests, followed by counselling:

S. No.	Programme*	Entrance Test
1.	B.Sc. Agri. (Hons.) 4-year	CET (Common Entrance Test)
2.	B.Sc. Biotechnology (Hons.) 4-year	-do-
3.	B.Tech Food Tech. (Hons) 4-year	-do-
4.	5-year Integrated M.Sc. (Hons)	-do-
5.	B.Sc. Agri (Hons.) 6-year	AAT (Agriculture Aptitude Test)
6.	Masters' programmes in Agronomy, Agricultural Meteorology, Extension Education, Food Technology, Forestry, Horticulture (Pomology, Floriculture & Landscaping, Vegetable Crops), Plant Breeding & Genetics, Plant Protection (Entomology, Plant Pathology, Nematology), Soil Science, Agricultural Economics, Sociology	MET-Agriculture
7.	M.Sc. Biotechnology	MET-Biotechnology
8.	Master of Computer Applications	MET-MCA
9.	Masters' programmes in Farm Power & Machinery, Soil & Water Engineering, Processing & Food Engineering	MET-AE
10.	M. Tech. Computer Science & Engineering	MET-CSE
11.	Master's programme in Civil Engineering	MET-CE
12.	Master in Journalism and Mass Communication	MET-Journalism
13.	Master of Business Administration (Agribusiness)	MET-Agribusiness
14.	Masters' programmes in Biochemistry, Microbiology, Botany, Zoology	MET-Basic Sciences
15.	Master's programme in Chemistry	MET-Chemistry
16.	Master's programme in Physics	MET-Physics
17.	Masters' programmes in Food & Nutrition, Family Resources Mgt., Clothing & Textiles, Human Development, Home Science Extension & Communication Management	MET-Home Science

***Remarks:** For all the candidates (except Govt. of India nominees or wherever specified otherwise).

APPLICATION FORM:

1. A candidate is required to submit separate application form for each entrance test.
2. All columns in the application form should be filled in and written carefully and legibly by the candidates in their own handwriting. Incomplete application form is liable to be rejected. The following documents should accompany the application form.
 - (a) Three latest passport size coloured photographs from the same negative duly signed by the candidate and attested by the Principal of Recognized School/ College or a Gazetted Officer are required. One should be pasted in the space provided on the application form and one on admit card. The third photograph should also be attached alongwith the application form. These photographs should be the same in all respects as the candidate wishes to appear in the examination/counselling i.e. if he wishes to appear with beard, turban etc., photograph should appear so.
 - (b) Attested copies of all educational certificates and marks sheets including that of qualifying examination issued by the Board/University.
 - (c) Attested copy of the Character Certificate from the Head of the Institution last attended.
 - (d) Attested copy of the certificate in support of the claim of belonging to Scheduled Castes/Scheduled Tribes or Backward Class or to any other reserved category from the competent authority in the prescribed format as attached with the application form.
 - (e) An attested copy of the Resident Certificate obtained from the competent authority in the prescribed format as given in application form.

ADMIT CARD:

1. Only those candidates, who fulfil the admission requirements for the programme to which they have applied will be issued Roll Numbers/Admit Cards on which centre of Examination will be mentioned. The Admit Card will be sent by post.
2. If Admit Card is not received two days before the date of the Entrance Test, the candidate may contact the office of the Registrar with a photograph from the same negative as on the application form for obtaining Duplicate Admit Card.
3. No Admit Card will be issued on the spot on the day of the Entrance Test.

GENERAL INSTRUCTIONS FOR TEST:

1. All Entrance Examinations will start at 10:00 AM. The candidates must reach the Centre of Examination at 9:00 AM sharp.
2. Candidates arriving late by more than half an hour will not be permitted to appear in the test.
3. Calculator, log tables, pager, mobile phone, note book or written notes, pamphlets, slide rules, protractors, rulers, highlighters dictionary etc. are not allowed inside the Examination Hall. Any violation would amount to disqualification of candidature.
4. Any candidate who creates disturbance of any kind during the Test or otherwise misbehaves in or around the Examination Centre or changes his/her seat with any candidate will be expelled from the Test.
5. Any candidate having in his/her possession or accessible to him/her papers/books or notes which may possibly be for providing assistance, or copying from any paper/book or note or allowing any other candidate to copy from his/her answer sheet or found writing on any other paper, or using or attempting to use any other unfair means will be expelled from the Test.
6. The decision of the Centre Superintendent/Coordinator/Controller of Examinations to expel a candidate from the examination centre shall be final.

7. If a candidate puts any identification mark on the outer cover or elsewhere in the question paper sheet, the same shall be cancelled. The decision of the Controller of Examinations in this regard will be final.
8. If impersonation in the Entrance Test is detected, the candidature will be cancelled and a case will be registered with the police.
9. Disabled students shall be granted an extra time @ 20 minutes per hour in entrance tests.

INSTRUCTIONS FOR ATTEMPTING PAPER:

1. Read the instructions carefully given on the question paper.
2. Write your roll number only in the space provided on the question paper and OMR sheet and nowhere else.
3. The candidates are required to follow the correct procedure for attempting the question paper. Write your roll number at the appropriate place on the answer sheet. Darken the oval pertaining to the most appropriate answer. For example, if you think that the answer given against choice (B) for question number 1 is the most appropriate, then darken the oval (B) given against 1 (the number of that question) as follows on the OMR sheet:

1. (A) (B) (C) (D)

If you darken more than one oval, your answer will be treated as wrong. Incorrect marking will also be taken as wrong answer.

4. Do not use any other mark except to darken the oval.
5. The candidates will not be allowed to leave the examination hall within first 60 minutes of commencement of the examination and during the last 30 minutes.
6. Each correct answer will carry one mark, whereas 1/4 mark will be deducted for every wrong answer/over writing/cutting (except where specified).
7. There will be no re-evaluation of the answer sheets.

CANDIDATES MUST BRING:

1. Two ball point pens (both only of black colour).
2. Admit card issued by the University.

RESULTS:

1. The result will be notified by the Registrar and will be displayed on the notice board and the university website (www.pau.edu). The candidates who are called for counselling should reach the venue on the schedule date and time. No separate information will be sent. The university will not pay any T.A./D.A. or other expenses for appearing in the Entrance Test/Counselling/Interview.
2. The candidates, called for 1st counselling, would be four times of the number of seats to be admitted in a particular programme.(see prospectus).

ENQUIRY:

Any clarification regarding admission can be obtained through E-mail academic@pau.edu

AAT (Agricultural Aptitude Test)

1. Test structure

The test shall be of 1^{1/2} hour duration and comprise 100 multiple choice type questions. The question paper shall have two sections (Section - I and Section - II) for candidates seeking admission to B.Sc. Agri. (Hons.) 6-year programme and the weightage shall be of 60 and 40 marks for Section - I and II, respectively.

Section I : General Aptitude in Agriculture : This section will be compulsory for all candidates and will carry 60% weightage..

Section II: General Science/Agriculture: This section will carry 40% weightage. Candidates can appear either in General Science or in Agriculture. The subject in which the candidate wants to appear must be mentioned in column no. 6 of the application form.

2. Syllabus

Section I:

General Aptitude in Agriculture

Knowledge of candidates in vernacular language about the land measurements, cultivation of various *Rabi* and *Kharif* crops, fruits and vegetables. Important fertilizers, farm hand tools, implements, and weeds.

Section II :

General Science/Agriculture

The syllabi of AAT for admission to B.Sc. Agri. (Hons.) 6-year programme will be the same as the syllabus for 10th standard of Punjab School Education Board /Central Board of Secondary Education/Indian Certificate Secondary Education.

3. Model Questions:

Section I :

General Aptitude in Agriculture

- Garlic is propagated through:
(A) Seed (B) Cuttings
(C) Cloves (D) None of these
- Citrus is propagated through
(A) Air-layering (B) Tongue grafting
(C) Cleft grafting (D) T-budding
- One hectare is equal to :
(A) 1.5 acre (B) 2.0 acre
(C) 1.25 acre (D) 2.5 acre
- Which hand tool is used for harvesting of crops ?
(A) Baguri (B) Zandra
(C) Phaura (D) Sickle
- Urea fertilizer contains
(A) 26% N (B) 36% N
(C) 46% N (D) 56%

Section II:

Social Science

1. The H^+ ion in the photosynthesis is used to reduce :
(A) ATP (B) NADP
(C) NADPH₂ (D) FAD
2. A coiled wire containing large number of turns of insulated conducting wire :
(A) Solenoid (B) Anode
(C) Cathode (D) Diode
3. In grafting the cutting of the desired plant which is attached to the stem of another plant is called :
(A) Scion (B) Stock
(C) Bud (D) Layer
4. Wave length less than 4000 Å :
(A) Violet (B) Red
(C) Ultra-red (D) Ultra-violet
5. Caloric value of cow dung cake is :
(A) 48 KJ/g (B) 45 KJ/g
(C) 6-8 KJ/g (D) 6.8 KJ/g

Agriculture

1. ICAR
(A) Indian Council of Agricultural Research (B) Indian Council for Agricultural Research
(D) Indian Council of Agriculture Research (D) Indian Council for Agriculture Research
2. The sowing of Gladiolus is done by :
(A) Seed (B) Bulb
(C) Cuttings (D) Grafting
3. Crop diversification is :
(A) Cultivation of minor crops along with rice and wheat (B) Cultivation of crops other than rice and wheat
(C) Cultivation of more than two crops per year on the same piece of land (D) None of these
4. Which of the following is the *Rabi* crop?
(A) Rice (B) Wheat
(C) Cotton (D) Groundnut
5. The optimum temperature of soil for vermiculture:
(A) 15°C (B) 20°C
(C) 25°C (D) 30°C

CET (Common Entrance Test)

1. Test Structure

The test shall comprise one paper of three hours' duration. It will be split into different parts covering different subjects. The Course contents as well as the level of the paper shall be that of the qualifying examination. The paper will contain 200** multiple choice type questions. The subjects for the Common Entrance Test shall be as under:

* Subject	Marks
Physics (Compulsory)	33%
Chemistry (Compulsory)	33%
Biology or Mathematics** or Agriculture (Optional)	34%

* Physics and Chemistry are compulsory for all candidates. Candidates can appear in Biology or Mathematics or Agriculture. The optional subject in which the candidate wants to appear must be mentioned in column no. 7 of the application form.

** Mathematics part will contain half the number of questions with double weightage (than Biology and Agriculture parts)

2. Syllabus

The syllabi of Common Entrance Test (CET) will be the same as the syllabi of 10+2 of the Punjab School Education Board (both years).

3. Model Questions

PHYSICS

1. A particle starts with initial velocity for 10m S^{-1} . It covers a distance of 20 cm along a straight line in two seconds. What is the acceleration of particle?
(A) Zero (B) 1mS^{-2} (C) 10mS^{-2} (D) 20mS^{-2}
2. What is the barometric height of a liquid of density 3.4 g cm^{-3} at a place where that for mercury barometer is 70 cm?
(A) 70 cm (B) 140 cm (C) 280 cm (D) None of these
3. A ball is floating in a beaker placed in a lift. Half of its volume is outside water. The lift starts rising up with acceleration equal to $\mu/2$. What fraction of the ball will now be outside the water surface?
(A) $\frac{1}{4}$ (B) $\frac{1}{3}$ (C) $\frac{1}{2}$ (D) $\frac{3}{4}$
4. There is a current of 3.2 A in a conductor. The number of electrons that cross any section normal to the direction of flow per second is:
(A) 10^{19} (B) 2×10^{19} (C) 3×10^{10} (D) 3.2×10^{19}

CHEMISTRY

1. The electronic configuration 2, 8, 8, 2 represents the element:
(A) Argon (B) Potassium (C) Calcium (D) Chlorine

- In a double bond connecting two atoms there is sharing of:

(A) 2 electrons	(B) 4 electrons	(C) 1 electron	(D) 6 electrons
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- The pH of 10 molar solution HCl in water is:

(A) 8	(B) -8	(C) between 7 and 8	(D) between 6 and 7
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- The molarity of H_2SO_4 in which mole fraction of water is 0.85 is:

(A) 8.9	(B) 9.8	(C) 0.98	(D) 0.89
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BIOLOGY

- One of the following terms involves all others?

(A) Stock	(B) Scion	(C) Graft	(D) Cambium
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- Duplication of chromosomes without division of the nucleus resulting in an increased number of chromosomes within a nucleus is known as:

(A) Mitosis	(B) Meiosis	(C) Cistron	(D) Endomitosis
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- The following plant has male and female reproductive parts in the same flower:

(A) Papaya	(B) Date palm	(C) Cycas	(D) Datura
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- Spike of unisexual flowers is found in:

(A) Wheat	(B) Onion	(C) Mulberry	(D) Fig
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AGRICULTURE

- Diammonium phosphate contains P_2O_5

(A) 20% P_2O_5	(B) 36% P_2O_5	(C) 46% P_2O_5	(D) 60% P_2O_5
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- The cotton plant belongs to the family:

(A) Cruciferae	(B) Malvaceae	(C) Rutaceae	(D) Solanaceae
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- The component of the chromosome that controls heredity is:

(A) Protein	(B) RNA	(C) DNA	(D) Enzyme
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- Which of the following is a green manure crop?

(A) Cotton	(B) Dhaincha (Jantar)	(C) Sorghum	(D) Wheat
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MATHEMATICS

- If $\Delta = a^2 - (b-c)^2$, when is Δ the area of ΔABC , then $\tan A$ is equal to:

(A) 15/16	(B) 8/15	(C) 8/17	(D) $\frac{1}{2}$
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- If the third term of G. P. is 4, the product of first five terms is:

(A) 4^3	(B) 4^5	(C) 4^4	(D) None of the above
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MET - AGRICULTURE

1. Test Structure

- a) The question paper shall have two sections
- b) Section I: General Agriculture (Code:AG), which will be compulsory for all the candidates except those seeking admission in Extension and Education and Sociology who can attempt either General Agriculture (Code: AG) or Home Science (Code: HS)
- c) Section II: This will be of candidates' choice, which will be of any one out of the following ten disciplines namely:
 1. Agronomy / Agrometeorology
 2. Extension Education
 3. Food Technology
 4. Forestry
 5. Horticulture (Pomology, Floriculture & Landscaping, Vegetable Crops)
 6. Plant Breeding & Genetics
 7. Plant Protection (Entomology, Plant Pathology, Nematology)
 8. Soil Science
 9. Agricultural Economics
 10. Sociology
- d) Candidates seeking admission in Extension Education and Sociology have to attempt either General Agriculture (Code: AG) or Home Science (Code: HS) and the relevant discipline.
- e) There will be 200 multiple choice type questions (Section I: 100, Section II: 100) to be attempted by the candidate in the allotted time of 3 hours. Weightage for Section-I and Section-II will be 25% and 75% respectively.
- f) The admissions shall be made based on the merit list within the discipline as per university rules.

2. Syllabus

Section I:

General Agriculture (Code: AG)

Principles of crop production. Improved varieties, cultural practices, major pests and diseases (and their control) of wheat, rice, cotton, sugarcane, pulses, oilseeds and important vegetables, fruits and ornamentals of Punjab. Breeding method of self-pollinated, cross pollinated and vegetatively propagated crops. Seed certification. Principles of agroforestry. Functions and deficiency symptoms of micro and macronutrients. Organic manures, inorganic and biofertilizers. Handling, processing and preservation of foods of plant and animal origin. Fundamentals of agricultural business and marketing. Extension education in relation to rural development and precision farming, world trade in agriculture, commodities, quarantine and SPS measures, ITRs.

General Home Science (Code: HS)

Food security. Normal, therapeutic and community nutrition. Human development. Family resource management. Fashion and dress designing. Mass communication and women empowerment.

Section II:

Agronomy/Agrometeorology

Farming systems, cropping systems, cropping patterns, cropping schemes and crop plans. Tillage - principles and practices. Seed and seeding practices. Nutrient management - principles and practices of fertilizer use, organic manures, biofertilizers and integrated nutrient management for sustainable agriculture. Crop-weed competition. Principles and practices of weed management. Soil-water-plant relationships. Crop growth, yield and quality interactions. Water management and improving water use efficiency in crops and cropping systems. Dry farming - principles and practices. Management problems and practices for waterlogged, eroded and saline-alkali soils. Physiological processes in crop growth and development. Use of growth regulators for modifying growth and abscission. Physiological maturity and criteria for crop harvest. Seed production techniques for cereal, pulse, oilseed and sugar crops. Physiology of seed development, dormancy and viability.

Weather, climate and agriculture. Effects of environmental factors on crop growth and development. Agroecosystem and agroclimatic zones of India.

Extension Education

Objectives and principles of extension education. Models of communication. Audio-visual aids - classification and importance in extension teaching. Problems in communication and feedback. Role of mass media in diffusion of agricultural technology. Diffusion and adoption processes. Communication skills for technology transfer. Extension teaching methods. Programme planning - principles and procedures. Methods and steps in evaluating extension programmes. Rural development- past strategies and current approaches. Problems in the management of extension programmes. Role and qualities of a good extension worker, supervisor, administrator and local leader. Role and functions of voluntary organizations. Scope and significance of psychology in the formation of social attitudes. Principles of effective teaching-learning. Importance and types of interpersonal perception, human interaction and social behaviour. Barriers in human resource development and establishing good human relations.

Food Technology

Major nutritional deficiency diseases. Food groups and concepts of balanced diet. Food adulteration. Food laws and food safety. Post-harvest technology of perishable and semi-perishable agricultural and animal produce. Processing techniques and preservation of cereals, oilseeds, milk, fruits, vegetables, meat and poultry. Status of food industry in India. Preparation of jams, jellies, vinegar, ketchup, pickles and chutneys. Role of pectin in gel formation. Disposal of waste from fruit and vegetable processing plants. Filled and fermented milk. Preparation of cheese, ice-cream, condensed and evaporated milk, whole- and skim-milk powder. Milk plant sanitation. Utilization of milk by-products. Structure of different grains - wheat, rice, barley, oat, corn and millets. Flour and its use in bakery products. Milling and parboiling of paddy. Rice bran oil. Preparation of extruded products. Structure, composition, nutritive value and functional properties of egg. Preparation of egg products. Slaughter and dressing of poultry and other meat animals. Meat tenderization. Preservation and utilization of meat and poultry processing plant by-products. Restructured meat and poultry products.

Forestry

Forestry nursery layout and development. Seed technology. Nursery production technology of important tree species (Shisham, Babul, Sobabul, Teak, Poplar, Eucalyptus and Chir Pine). Measurement of growth parameters and volume of trees. Normal forest. Sustained yield regulation. Growing stock, increment and rotation. Agroforestry and agroforestry systems. Nitrogen fixing and multipurpose - trees. Choice of crops and trees in different agroforestry models. Social forestry and community forestry. Tree-crop interactions. Distribution and ecology of wild life in India. Wild life conservation strategies. Silvicultural principles, processes and tending operations. Silvicultural systems. Silviculture of important tree species (Eucalyptus, Shisham, Poplar, Chir Pine, Babul, Deodar, Teak). Forest ecosystem and its conservation. Ecological succession. Forest types of India. Energy flow and material cycle. Concepts and methods in tree improvement. Mating designs. Genetic testing and seed production areas. Important exotic trees. Nature of wood and its properties. Wood seasoning and preservation. Composite wood products and minor forest products. Defects and abnormalities in timber.

Horticulture

Pomology: Importance and scope of fruit industry in India. Planning and planting of new orchard. Factors affecting seed dormancy and germination. Plant growth and development. Training and pruning of fruit trees. Fruit bud formation. Problems of pollination and fruit set in orchards. Factors affecting yield and quality of fruits. Nutrition weed management and water requirements in fruit plants. Principles and practices in macro- and micro-propagation and nursery management of fruit plants. Principles and practices in production, handling and processing of citrus, mango, grape, litchi, guava, ber, pear, peach and plum. Methods of evaluation of fruit trees.

Vegetable Crops: Scope, importance and classification of vegetable crops. Role of soil, climate and agronomic factors in potato, tomato, chilli, brinjal, cauliflower, cabbage, radish, carrot, onion, garlic, peas, beans, methi, spinach, muskmelon, pumpkin, bittergourd, bottlegourd and okra. Vegetable forcing. Nursery management. Post-harvest handling, storage and marketing of vegetables. Breeding methods for vegetable crops. Production of nucleus, breeder, foundation, certified and F 1 hybrid seeds. Seed harvesting, processing and storage.

Floriculture and Landscaping: Scope of floriculture and landscaping. Production technology of annuals, rose, chrysanthemum, gladiolus, carnation, cacti and succulents. Post-harvest handling of cut flowers. Flower seed production. Characteristics of different types of gardens. Landscape art principles. Principal groups of plants (trees, shrubs, climbers, shade loving plants, ground covers), their analysis and use in landscape composition. Landscape planning for homes and farm complexes. Rock, water and terrace gardens.

Plant Breeding and Genetics

Mendelian inheritance. Cell division and cell cycle. Chromosome structure and function. Chromosome aberrations. Polyploidy. Genetic recombination. Gene concept, organization, replication and function of genetic material. One gene - one enzyme hypothesis. Genome analysis. Gene frequency and Hardy-Weinberg equilibrium. Quantitative inheritance. Heritability and response to selection. History and achievements of plant breeding. Germplasm resources - their origin, conservation and utilization. Male sterility, self-incompatibility, mutation and polyploidy in plant breeding. Heterosis and its exploitation. Breeding methods in self-pollinated (pure line and mass selection, pedigree, bulk, SSD and backcross method); cross pollinated (population improvement methods, recurrent selection techniques) and vegetatively propagated crops. Combining ability analysis. Breeding of wheat, rice, cotton, maize, sugarcane, oilseeds and pulse crops. Plant Breeders' Rights. Principles of field plot techniques. Designs for plant breeding experiments. Genotype x environment interaction and stability of varieties. Breeding for diseases and insect-pest resistance in crop plants. Tissue culture, micro-propagation, somaclonal variation, somatic hybridization and production of transgenic plants. Genetic engineering in relation to plant breeding.

Plant Protection

Entomology: Body regions and segmentation in insects. General morphology and anatomy of insects. Integument, moulting and metamorphosis. Modifications of mouth parts and body appendages. Physiology of major organ systems. Biotic potential. Resistance to biotic and abiotic stresses. Population dynamics, diapause, food chain, migration and dispersal. Taxonomic categories. Binomial nomenclature. Classification of insects into orders, sub-orders and families of economic importance. Losses due to insect pests and methods of assessment. Principles and methods of pest control. Economic thresholds. Integrated Pest Management. Distribution; host range, nature and extent of damage, life histories and control of insect and mite pests of field, vegetable, plantation and fibre crops, fruit and forest trees, ornamental plants, stored grains and household articles. Novel methods of pest control, host plant resistance and transgenics. Productive insects, pollinators, parasitoids and predators. Pesticides - classification, mode of action and toxicity. Formulations, compatibility, synergism and antidotes. Insecticide resistance and its management. Pest control equipment : principles of working, operation and maintenance.

Plant Pathology: Characteristics of fungal, bacterial and viral pathogens of plants. Plant disease concepts. Classification of plant diseases. Infection, growth, reproduction and dissemination of plant pathogens. Pathogenesis. Variability in plant pathogens. Plant disease epidemics. Nature of host-resistance. Seed health testing. Methods of plant disease management. Distribution, symptoms, etiology, predisposing factors, perpetuation and control of important diseases of field crops (wheat, rice, maize, rape seed and mustard, sunflower, cotton, sugarcane and

moong), vegetables (potato, tomato, brinjal, chillies, okra, peas, onion, carrot and cucurbits), fruits (citrus, mango and grapes) and ornamentals (rose, chrysanthemum, gladiolus and carnation).

Nematology: Morphology, biology and control of important genera of nematodes causing diseases of cereals, fruits and vegetables.

Soil Science

Weathering of minerals and rocks. Factors of soil formation and their dynamics. Pedogenic processes. Soil survey and mapping. Soil taxonomy. Land suitability evaluation for agriculture. Soils of Punjab and India. Soil colloids. Cation and anion exchange. Soil reaction. Saline and sodic soils - characterization and amelioration. Plant nutrients - functions, deficiency systems, transformation and availability. Soil fertility evaluation and maintenance. Fertilizers and their use efficiency. Concept of integrated fertilizer use. Soil testing - importance and problems. Principles in the determination of available nitrogen, phosphorus, potassium, sulphur and zinc in soils. Analysis of fertilizers and irrigation water. Micro- and macro-organisms in soils and their role in biochemical decomposition of organic manures, farm wastes and nutrient transformations. Biochemistry of humus formation and biogas production. Soil water. Forces of water retention. Saturated and unsaturated water movement, infiltration and redistribution. Criteria for scheduling of irrigation. Soil, water and wind erosion - significance, causes, processes and control. Soil erodibility and rainfall erosivity indices.

Agricultural Economics

Micro Economics, consumption, production, costs, demand and supply and factors affecting them. Forms of market structure and price determination under perfect competition and monopoly. Pricing of factors of production. Micro Economics, Basic Concepts. National income accounting. Theories of consumption and investment. Income determination model including money and interest. Monetary, fiscal, wage and employment policies. Measures of full employment, process causes and remedies of inflation. Farm management. Typical decisions and principles of farm management. Farm records and business accounting. Farm planning. Factor-factor, factor-product and product-product relationships. Agricultural marketing. Types of markets. Methods of sale. Market functions and institutions. Importance of credit institutions. Classification of credit. Three R's of credit. Repayment schedule. Role of economics liberalization in agriculture. Formulation and evaluation of different agricultural products such as dairy, poultry, fishery, floriculture under Punjab conditions. Forest Economics. Importance of agriculture in Indian economy, comparison with other countries. Economic problems in Indian agriculture relating to agricultural production and productivity, credit, marketing and labour. Principles and role of agricultural cooperatives.

Sociology

Nature and scope of sociology and rural sociology and their relationship with other social sciences. Importance of sociology and rural sociology. Basic concepts; rural social structure; characteristics of rural society; rural urban differences; social control. Elements of social system. Role of social, economic, political, educational and other institutions in India. Some selected village studies. Rural India in transition and the role of rural development programmes. Emerging patterns of rural life in India. Diffusion and adoption of farm technology. Structure and functions of rural community organizations (formal and informal). Process of making decisions and policy for community development through agricultural extension, school systems and other agencies. Social relations and organizations among selected people around the world including kinship, religious, fraternal, occupational and political forms of behaviour. Effects of environment on human behaviour. Value system; social stratification and leadership pattern. Demographic factors, fertility and mortality. Micro and macro dynamics of population. Population policy and economic development. Definition, aims and scope of psychology; methods of psychology; sensation; perception; attention; learning; personality; instinct; feeling; emotion; sentiments. Definition. Concepts of social change; determinants of social change; concepts of structural changes; social, cultural, economic, political and technological change. Change associated with development. Technological breakthrough and social change. Consequences of social change.

3. Model questions

General Agriculture (Code : AG)

1. NAARM is located at
(A) New Delhi (B) Hyderabad
(C) Karnal (D) Cuttack
2. Percentage of net sown area in India which is irrigated is :
(A) 62 (B) 38
(C) 65 (D) 35

General Home Science (Code : HS)

1. Energy requirements of an individual vary with :
(A) Age (B) Physical activity
(C) Sex (D) All of these
2. Hindu Marriage Act was framed in
(A) 1945 (B) 1950
(C) 1955 (D) 1959

Agronomy

1. Puddling operation is followed in
(A) Wheat (B) Cotton
(C) Rice (D) Sugarcane
2. Sensor in the minimum thermometer is
(A) Water (B) HCl
(C) Mercury (D) Alcohol

Extension Education

1. When something is put forth as a point of view or an assumption and its proof is not known, it is called
(A) Hypothesis (B) Theory
(C) Principle (D) Objective
2. The term Human Resource Development covers the area of
(A) Education (B) Training
(C) Development (D) All the three

Food Sciences and Technology

1. Maize protein is known as
(A) Gluten (B) Zein
(C) Hordein (D) Oryzin

2. The enzyme used for tenderization of meat is
- | | |
|-------------------------|---------------|
| (A) Papain | (B) Invertase |
| (C) Bacterial peptidase | (D) Runnel |

Forestry and Natural Resources

1. Main component in wood is
- | | |
|---------------|-------------------|
| (A) Cellulose | (B) Hemicellulose |
| (C) Lignin | (D) Extractives |
2. Lignotubers are found in
- | | |
|----------------|------------|
| (A) Kikar | (B) Poplar |
| (C) Eucalyptus | (D) Neem |

Horticulture : Pomology, Vegetable Crops : Floriculture

1. The nutrient which improve fruit quality
- | | |
|--------------|---------------|
| (A) Zinc | (B) Calcium |
| (C) Nitrogen | (D) Potassium |
2. Buttoning is a physiological disorder in
- | | |
|-----------------|-------------|
| (A) Cauliflower | (B) Cabbage |
| (C) Tomato | (D) Onion |
3. Planting time of perennial chrysanthemum is
- | | |
|--------------|----------------|
| (A) Sept-Oct | (B) Feb.-March |
| (C) Nov.-Dec | (D) Jul-Aug |

Plant Breeding & Genetics

1. Multiline variety is a mixture of
- | | |
|--------------------|------------------|
| (A) Pure lines | (B) Inbred lines |
| (C) Isogenic lines | (D) Hybrids |
2. Selection is more effective if heritability is
- | | |
|----------|--------------|
| (A) High | (B) Low |
| (C) Zero | (D) Negative |

Plant Protection : Entomology, Plant Pathology, Nematology

1. Whole of the sugarcane plant above attacked portion dries up due to attack of
- | | |
|----------------|---------------------|
| (A) Top borer | (B) Shoot borer |
| (C) Root borer | (D) Gurdaspur borer |

2. Loose smut of wheat caused by *Ustilago tritici* completes following number of life cycles during crop Season

(A) One	(B) Two
(C) Three	(D) Four
3. Root Knot nematode was discovered during the year 1855 by

(A) Berkley	(B) Needham
(C) Khun	(D) Cobb

Soil Science

1. Which one is immobile plant nutrient

(A) Potassium	(B) Sulphur
(C) Phosphorus	(D) Calcium
2. Soil gets nutrients from Diammonium phosphate

(A) Nitrogen	(B) Phosphorus
(C) Potash	(D) Nitrogen and Phosphorus
3. Availability of Fe, Mn, Zn, Cu in acid soil is :

(A) Very less	(B) Less
(C) More	(D) No affected

Agricultural Economics

1. A fall in the price of a commodity leads to

(A) A shift in demand	(B) A fall in demand
(C) A rise in consumer's real income	(D) A fall in the consumer's real income
2. Apni Mandi was started in Punjab during

(A) 1987	(B) 1977
(C) 1997	(D) 2000

Sociology

1. Where the real authority of household rests with mother, the family is called.

(A) Patriarchal	(B) Conjugal
(C) Matriarchal	(D) Procreation
2. In an industries society general outlook of life is

(A) Social	(B) Religious
(C) Materialistic	(D) Spiritual

MET-BIOTECHNOLOGY

1. Test Structure

- (a) There will be 200 multiple choice type questions to be attempted in allotted time of 3 hours.
- (b) There will be a common merit list for the purpose of admission through counseling as per university rules.

2. Syllabus

Heredity and variation. Principles of inheritance. Mendel's laws. Gene concept. Organization and replication of genetic material. Mutations. Polyploidy. One gene one enzyme hypothesis. Organization of mitochondrial and chloroplast DNA. Polygenes. Multiple allelism. Sex-determination and sex linked inheritance. Linkage and crossing over. Gene expression. Cytogenetics. Cytoskeleton and cellular interactions. Endoplasmic reticulum, Golgi apparatus and lysosomes, mitochondria, chloroplast and peroxisomes. Structure and organization of prokaryotic and eukaryotic genome. Various aspects of plant tissue culture. Production of secondary metabolites through cell, tissue and organ culture. Recombinant DNA technology. Genetic transformation and transgenics. Molecular biology. Molecular markers. DNA fingerprinting. Genomics and proteomics. Bioinformatics.

Plant kingdom, features of each group; morphology of root, stem, leaf, flower and inflorescence; pollination and fertilization; fruit and seed. Economically important plants. Thermodynamics of plant water relationship, mineral nutrition, photosynthesis, nitrogen metabolism, translocation of photoassimilates, growth and growth hormones, photoperiodism, vernalization senescence and ageing, morphogenesis, dormancy, fruit growth and fruit ripening. C3, C4 and CAM plants. Glycolysis, Krebs cycle. Biogeochemical cycling, pollution (air, water and soil), bioindicators, conservation and management of natural resources.

Classification and general survey of animal kingdom. Various aspects of developmental biology. Animal behaviour and ecology. Ecto- and endo- parasites of man. Parasites and Parasitism. Pests and their management. Communicable and non-communicable diseases.

Introduction to Microbiology and its scope. Eukaryotes and prokaryotes. Biology of viruses. Role of microorganisms in food, dairy and fermentation industries. Biofertilizers and biopesticides. Important microbial diseases of man.

Concept of buffers in living systems. Proteins and their sequencing. Enzymes - their general mechanism of action, classification, kinetics and regulation; concept of bioenergetics and respiratory chain. Concepts of intermediary metabolism and major pathways. Role of vitamins. Principles of centrifugation, chromatographic, electrophoretic, spectrophotometric, immunological and radioisotopic techniques. Metabolism of carbohydrates, lipids, amino acids and nucleic acids. Cell structure and function. Classification of enzymes. Effect of activators and inhibitors on enzyme catalysis.

3. Model questions

1. Plant physiology deals with
(A) Plant conservation (B) Heredity
(C) Taxonomy (D) Plant function
2. Plasmolysis occurs due to:
(A) Endosmosis (B) Exosmosis
(C) Presence of solutes (D) Semi permeability of cell membrane
3. Which is the acceptor of CO₂ in Calvin cycle?
(A) PGA (B) PEP
(C) RuBP (D) RuMP
4. Plants absorb nitrogen in the form of:
(A) Nitric acid (B) Nitrogen gas
(C) Nitrites (D) Nitrates
5. In Krebs's cycle which is utilized:
(A) Pyruvic acid (B) Acetyl CoA
(C) Oxaloacetic acid (D) Acetyl CoA and oxaloacetic acid
6. Which one is the natural auxin?
(A) 2,4-D (B) NAA
(C) IAA (D) IBA
7. 'Genome' is represented by:
(A) Diploid set of chromosomes (B) Haploid set of chromosomes
(C) Set of genes lying closely on chromosome (D) None of these
8. Which of the following depicts dihybrid ratio?
(A) 3 : 1 (B) 3 : 4
(C) 9 : 4 : 4 : 2 (D) 9 : 3 : 3 : 1
9. Hybrids are generally superior to parents because of:
(A) Homozygosity (B) Hybrid vigor
(C) Parents are generally weak (D) None of these
10. The preferred organism for lactic acid production is:
(A) Streptococcus lactis (B) Lactobacillus bulgaricus
(C) L. delbrueckii (D) L. casei

MET - AGRIBUSINESS

1. Test Structure

- (I) The objective of this test is to measure the development of mental abilities and aptitude for studies in Agri-Business Management. The score of this test together with the score of group discussion and interview will determine the merit for admission to MBA Agribusiness programme in the university.
- (II) (a) There will be 300 multiple choice type questions to be attempted in allotted time of 3 hours.
- (b) There will be two parts of the Question Paper. Part-I will contain 60 questions each from Written Communication Ability, Numerical Ability and Management Aptitude, and Part-II will contain 120 questions of General Knowledge.
- (c) The weightage of Part-I will be 60% and Part-II will be 20%. Group Discussion and Interview will have weightage of 10% each.

2. Model Questions

PART-I:

WRITTEN COMMUNICATION ABILITY

The questions for the Written Communication Ability Test attempt to measure the communication skills of the students. This may include comprehension, vocabulary test, English usage, English structure, word usage, synonyms and antonyms etc. Some examples are given below:

1. Choose the word that has nearly the same meaning of the word given:

METAMORPHOSIS

- (A) Transformation (B) Catharsis
(C) Fossils (D) Violent explosion

2. Choose the word that has an opposite meaning of the word given:

VILIFY

- (A) Sing the praise of (B) Show satisfaction with
(C) Regard with distrust (D) Welcome with glee

3. Fill in the blanks:

He managed to several times, but was finally by the police.

- (A) Absconded Kidnapped (B) Deceive Cheated
(C) Cheat Robbed (D) Escape Arrested

NUMERICAL ABILITY

The questions relating to Numerical Ability are to test student's proficiency in using the various numerical techniques. For example:

1. One metre is equal to:
(A) 3.281 ft. (B) 3.126 ft.
(C) 3.250 ft. (D) None of these
2. The cost of cultivating a square field at the rate of Rs. 160 per hectare is Rs. 1440/-. The cost of putting a fence around it at 75 paise per meter is:
(A) Rs. 900/- (B) Rs. 18/-
(C) Rs. 360/- (D) Rs. 810/-

MANAGEMENT APTITUDE

It includes general aptitude of the candidate towards Agri-Business Management. For example:

1. NABARD is a/an
(A) Manufacturing company (B) Export house
(C) Financial institution (D) Teak Department
2. The term 'future and option' trading is associated with:
(A) Capital market (B) Home furnishing market
(C) Restaurant (D) Hotels

PART-II:

GENERAL KNOWLEDGE

It tests general awareness of the candidate from diversified areas such as Agriculture and allied sciences, Social Sciences, National and International Current Affairs. For example:

1. ICAR stands for
(A) International Center for Agricultural Research (B) Institute for Central Agricultural Research
(C) Indian Council of Agricultural Research (D) Indian Commodity of Agricultural Research
2. Which is the biggest oil consuming country in the world:
(A) USA (B) U.K.
(C) France (D) India

MET - BASIC SCIENCES

1. Test structure

- (a) There will be 200 multiple choice type questions to be attempted in allotted time of 3 hours.
- (b) There will be a common merit list for the purpose of admission through counselling as per university rules.

2. Syllabus

Morphology and life history of important genera of algae, fungi, bacteria, viruses, lichens, bryophytes, petridophytes and gymnosperms. Basic knowledge of anatomy, embryology and systematics of angiosperms. Economically important plants. Thermodynamics of plant water relationship, mineral nutrition, photosynthesis, nitrogen metabolism, translocation of photoassimilates, growth and growth hormones, photoperiodism, vernalization, senescence and aging, morphogenesis, dormancy, fruit growth and fruit ripening, abiotic stress in plants. Cell structure and function Community structure and dynamics, ecosystem, biogeochemical cycling, pollution (air, water and soil), bioindicators, conservation and management of natural resources.

Animal classification and biosystematics. Comparative anatomy and physiology of invertebrates and vertebrates, Various aspects of developmental biology. Evolution, animal behaviour and ecology, Parasites and Parasitism. Pests and their management. Conservaton and management of fishery resources. Fish culture practices, induced breeding, fish diseases and their control, fish by-products and their use. Ecosystem and Biodiversity conservation.

Heredity and variation. Principles of inheritance. Gene interaction, Multiple allelism. Sex-linked, sex-influenced and sex-limited inheritance. Linkage, crossing over and chromosome mapping. Nature, structure and replication of genetic material. Gene structure, gene expression, genetic code and gene regulation Quantitative inheritance. Genes in populations. Genetic engineering and biotechnology. Genetic disorders in man. Tissue culture and its applications. Speciation.

Introduction and historical developments of Microbiology. General account of prokaryotic and eukaryotic cells. Microbial nutrition. Biology of viruses. Microbial interactions. Role of microbe in agriculture, food, dairy, pharmaceutical and other fermentation industries. Important microbial diseases of man.

Importance of Biochemistry; Concept of Buffers in living system; Cell structure and function of biomolecules; structural organization of proteins and their sequencing, enzymes their general mechanism of action, classification, kinetics and regulation; concept of bioenergetics and respiratory chain, Concepts of intermediary metabolism and major pathways. Role of vitamins. Principles of centrifugation, chromatographic, electrophoretic, spectrophotometric, immunological and radioisotopic techniques.

3. Model questions

1. The two heavy chains of immunoglobulins are joined by disulfide linkages
(A) One (B) Three
(C) Two (D) Four
2. The disease pellagra occurs due to deficiency of
(A) Thiamine (B) Niacin
(C) Folic acid (D) Riboflavin
3. Cells of aleurone layer contain
(A) Fats (B) Starch
(C) Protein (D) Sugars
4. The endosperm of angiosperms is developed form of
(A) Antipodals (B) Zygote
(C) Synergids (D) Secondary nucleus
5. Which one of the following is called Father of Genetics
(A) J.D. Watson (B) G.J. Mendel
(C) H.G. Khurana (D) M.S. Swaminathan
6. Two alleles are said to show codominance if
(A) Neither of them expresses in heterozygous condition (B) Both of them express in heterozygous condition
(C) Only one of them expresses in heterozygous condition (D) None of the above condition
7. The most preferable organism for lactic acid production is
(A) *Lactobacillus bulgaricus* (B) *Streptococcus lactis*
(C) *L. delbrueckii* (D) *L. casei*
8. α -amylases are produced by
(A) *Aspergillus niger* (B) *Penicillium* sp.
(C) *Bacillus subtilis* (D) *Fusarium*
9. The skeletal ossicles of starfish arise from
(A) Ectoderm (B) Mesoderm
(C) Endoderm (D) None of these
10. Larva of hemichordates is
(A) Auricularia (B) Tornaria
(C) Nauplius (D) Planula

MET - CHEMISTRY

1. Test structure

- (a) There will be 200 multiple choice type questions to be attempted in allotted time of 3 hours.
- (b) There will be a common merit list for the purpose of admission through counselling as per university rules.

2. Syllabus

Organic Chemistry - Aromatic, antiaromatic and non-aromatic compounds. Nucleophilic and electrophilic substitution in aromatic and aliphatic compounds. Chemistry of various functional groups. Carbonyl compounds: Physical and chemical properties, Wittig, Perkin, Knoevenagel, Cannizzaro, Reformatsky reactions. Amines: Basicity of aromatic and aliphatic amines and their general physical and chemical properties. Amino acids and proteins.

Spectroscopy: Application of IR, NMR, UV and mass spectroscopy in structure elucidation of simple organic compounds. Reaction mechanism involving reactive intermediates; carbanions, carbocations, free radicals and benzyne. Heterocyclics: Chemistry and reactions of five and six membered heterocyclics with one hetero atom., Natural Products: General introduction and chemistry of terpenoids, steroids, carbohydrates and alkaloids.

Inorganic Chemistry - Acid and Bases: Bronsted and Lewis concept of acids and bases. Molecular orbital approach: Linear combination of atomic orbitals, molecular orbital electronic configurations. p-Block elements, Chemistry of boron and aluminum compounds. Discovery and chemistry of noble gases. Transition metal chemistry: definition, d and f block transition elements, electronic configuration and general characteristics, comparison of the properties of metals of first transition series with 2nd and 3rd transition series. Origin of paramagnetism and diamagnetism. Magnetic susceptibility and Gouy's method. Ferromagnetism and anti ferromagnetism. Magnetic behavior of first row transition metal compounds. Qualitative idea of quenching of orbital contribution. Spectral properties of transition metal compounds. Terms, symbols, coupling scheme (L-S), determination of energy states of d^2 configuration only. The electrostatic crystal field theory. CFSE, spectrochemical series. Selection rules of electronic spectra. Nature of electronic transition in complexes with d^1 - d^9 configurations in octahedral and tetrahedral fields (simple energy level diagrams only). Metal carbonyls.

Physical Chemistry - Kinetic theory of gases, limitations, modifications and its applications. Chemical and ionic equilibria and its applications. Arrhenius and Debye Huckel theories. Adsorption theories and their applications. Classical and thermodynamic treatment of properties of pure liquids and solutions. Basic principles of kinetics of simple and complex reactions. Basic principles of kinetics of simple and complex reactions. Basic principles and applications of molecular spectroscopy viz. IR, NMR, UV, Microwave. Statistical mechanics and partition function. Basic concepts of quantum mechanics and its applications.

3. Model questions

- Optical activity is shown by
(A) Glyceraldehyde (B) Meso-tartaric acid
(C) Chloroacetic acid (D) Xylene
- Hoffmann's Bromamide reaction involves the intermediate
(A) Carbene (B) Carbanion
(C) Nitrene (D) Carbocation
- Which of the following is the most basic in nature
(A) Pyrrole (B) Pyridine
(C) Furan (D) Thiophene
- Which of the following is most acidic in nature
(A) Ethyl alcohol (B) Phenol
(C) Ethane (D) Formaldehyde
- A hard acid behavior is due to
(A) Low oxidation state (B) Large size
(C) High oxidation state (D) Most diffused electron cloud
- The ground state of O_2 molecule is
(A) Diamagnetic (B) Paramagnetic
(C) Triple state (D) None of these
- Diborane on heating with excess of NH_3 at high temperature gives
(A) Diammoniate of diborane (B) Borazine
(C) Boron nitride (D) Boron-amine complex
- $Ni(CO)_4$ is
(A) Paramagnetic (B) Diamagnetic
(C) Ferromagnetic (D) Antiferromagnetic
- Which of the following has three vibrational degrees of freedom
(A) O_2 (B) H_2O
(C) C_2H_2 (D) CH_4
- How many layers are absorbed in chemisorption?
(A) Many (B) Two
(C) Zero (D) One

MET-PHYSICS

1. Test structure

- (a) There will be 200 multiple choice type questions to be attempted in allotted time of 3 hours.
- (b) There will be a common merit list for the purpose of admission through counselling as per university rules.

2. Syllabus

Electronics: Junction diode, Zener diode, Tunnel diode, LED, LCD, Rectification-half wave and full wave rectifier, Filter circuits, voltage regulation, Junction transistor, structure and working, Characteristics of JFET, Transistor biasing, Working of common emitter amplifier. Analysis using h parameters. FET amplifier, Feedback in amplifiers, Oscillators LC oscillator, RC oscillators, Phase shift and Wein bridge, Modulation and detection. AM and FM Radio transmitter and receiver, Ionosphere.

Solid State Physics : Crystal structure. Two and three dimensional Bravais lattices, Miller indices, diamond and sodium chloride structures. Crystal diffraction, Bragg's law, Laue's equation, Reciprocal lattices of scc, bcc and fcc structures, Lattice vibrations, Einstein and Debye model of specific heat. Free electron model of metals, Fermi gas and Fermi energy, Band theory, Brillouin zones, Kronig-Penny model, Metals and insulators, Superconductivity.

Nuclear Physics : Constituents of nucleus and their intrinsic properties. Properties of nuclear forces, Liquid drop model, Nuclear shell model, Radioactivity, Modes of decay, Alpha, electron, positron and gamma ray emission. Nuclear reactions. Conservation laws. Q value and its significance. Energy loss due to ionization, Bremsstrahlung radiations, Interaction of gamma rays with matter. Cyclotron, Betatron, Linear accelerator, Ionization chamber. Proportional counter, GM counter, Scintillation counter, Elementary particles-classification. Conservation laws. Quarks.

Mathematics : Multiple integrals, application to area, surface, volume and centre of gravity, differential equation with constant and variable coefficients. Bessel and Legendre's equation. Function of complex variable, geometry of two or three dimensions. Linear algebra and matrices. Sequences and series, convergence of series, tests of convergence, statics. Newton's law of motion, resolution of forces and relative theorems. Laws of friction: Dynamics, motion of particle and bodies, momentum, its laws, principle of impulse and momentum, collision of elastic bodies, pendulum.

3. Model questions

In the following questions select the correct answer out of the given four alternatives.

1. In a full wave rectifier

$$(A) E_{dc} = \frac{E_m}{\pi}$$

$$(B) E_{dc} = \frac{2 E_m}{\pi}$$

$$(C) E_{dc} = \frac{E_m}{\pi}$$

$$(D) E_{dc} = \frac{2 E_m}{\pi}$$

2. An oscillator is nothing but an amplifier with :
- (A) Positive feedback (B) Negative feedback
(C) No feedback (D) Large gain
3. In a common base amplifier the phase difference between the input signal voltage and the output voltage is
- (A) 0 (B) $\pi/4$
(C) $\pi/2$ (D) π
4. Photon is a quantum of energy of
- (A) Electromagnetic energy (B) Elastic energy
(C) Magnetic energy (D) Electrostatic energy
5. The number of atoms in a unit cell of an fcc structure (with lattice constant) is
- (A) One (B) Four
(C) Two (D) Ten
6. An accelerator which cannot accelerator protons is
- (A) linear accelerator (B) Cyclotron
(C) Betatron (D) Van de Graff generator
7. Nuclear cross section has the dimensions of
- (A) Area (B) Length
(C) Volume (D) Density
8. GM counters are more suitable for counting
- (A) Gamma rays (B) Alpha, beta and gamma rays
(C) Beta rays (D) Any kind of radiation
9. The series $(-1)^n$ is
- (A) Convergent but not absolutely convergent (B) Convergent as well absolutely convergent
(C) Bounded but not convergent (D) Bounded as well as convergent
10. If $A = \int x^3 dx$ and $B = \int x dx$ then
- (A) $A = 1/3 B$ (B) $A = 3 B$
(C) $A = B$ (D) $A < B$

MET - JOURNALISM

(Journalism and Mass Communication)

1. Test structure

- (i) The objective of this test is to rate the students' general awareness, mental ability, English Language and familiarity with the latest in the news. The score of this test will determine the eligibility for counselling session.
- (ii) a) There will be 100 multiple choice questions to be attempted in allotted time of one hour.
b) There will be 4 parts in the question paper, viz. Part I - General Awareness, Part II - Mental Ability, Part III - English, Part IV - Journalism.
c) Each part will contain 25 questions.

2. Model Questions:

Part I - General Awareness

1. Who is the Agriculture Minister of India?
(A) Sharad Pawar (B) Pranab Mukherjee
(C) Somnath Chatterjee (D) None of these
2. Which of the following UN programmes concentrates its assistance on development activities for improving the quality of life of children and mothers in developing countries?
(A) UNEP (B) UNIDO
(C) UNICEF (D) UNHCR
3. JRD Tata is popularly called..
(A) Father of Civil Aviation in India (B) Shakespeare of India
(C) Father of India renaissance (D) Father of Indian Cinema

Part II - Mental Ability

1. 1,4,?,16,25,36. Determine the number after 4.
(A) 6 (B) 9
(C) 7 (D) 10

2. Taj Mahal : India : Leaning Tower of Pisa : ?
- (A) USA (B) Italy
(C) Australia (D) Denmark
3. Choose the word that is least like the other words given in the options:
- (A) Veil (B) Cap
(C) Turban (D) Hat

Part III - English

1. The most appropriate synonym of POLITY is
- (A) Courtesy (B) Trickery
(C) Methods of government (D) Freedom
2. Choose an antonym of AMPLIFY:
- (A) Decrease (B) Multiply
(C) Deceive (D) Bless
3. Choose the best possible option whose relationship is most like STARE : GLANCE
- (A) Confide : Tell (B) Lethargic : Energy
(C) Gulp : Slip (D) Scorn : Admire

Part IV - Journalism

1. Legal protection for an intellectual work is called....
- (A) Cheesecake (B) Copyright
(C) Centre Spread (D) Credit Line
2. Choose the full form of TRAI
- (A) Telephone Regularity Authority of India (B) Telephone Regulatory Association of India
(C) Telecom Regulatory Appellate of India (D) Telecom Regulatory Authority of India
3. Who is the CEO of TV Today Network?
- (A) Ted Turner (B) Subrato Roy
(C) R.N. Puri (D) Pronnoy Roy

MET·AE

(AGRICULTURAL ENGINEERING)

1. Test Structure

- (a) There will be 200 multiple choice type questions to be attempted in allotted time of 3 hours.
- (b) There will be 60 questions each from Farm Machinery and Power Engineering, Processing & Food Engineering; Soil & Water Engineering and 20 questions from Mathematics & Statistics.
- (c) There will be a common merit list for the purpose of admission through counseling as per university rules.

2. Syllabus

Farm Machinery and Power Engineering:

Sources of farm power: conventional & non-conventional energy sources. Review of thermodynamic principles of IC engines. Study of engine systems, components - their mechanisms, operating principles, functions and requirements, detonation and knocking in IC engines. Study of properties and requirements of lubricants, coolants and their additives. Tractor systems - transmission, steering, brake, hydraulics and power outlets. Traction theory principles. Tractor chassis mechanics and tractor stability. Human factors in tractor design Objectives of farm mechanization. Principles of operation and selection of machines used for crop production. Field capacities & economics. Study of primary and secondary tillage equipment. Forces acting on tillage tools. Sowing, planting and transplanting equipment, components, working principles and calibration. Plant protection and fertilizer application equipment. Crop harvesting and threshing machinery, combines, their economics and losses. Testing of farm machinery and importance. Selection and management of farm machines. Introduction to design parameters of agricultural machines. Design of standard power transmission components used in agricultural machines: mechanical & hydraulic units. Introduction to materials, cutting tools and manufacturing methods. Jigs and fixtures and their application. Process planning analysis and production controls. Reliability of machine system. Energy cycle of earth: energy sources and classification; handling and pre-conditioning of biomass; biomass characteristics; principles, types construction. Operation, maintenance and uses of non-conventional energy devices like biogas plant, biomass gasifier. Energy management and conservation

Processing and Food Engineering :

Engineering properties of biological materials; material and energy balances in unit operations; particle size analysis; size separation and screening; centrifugal separation; fluidization of granular solids. Thermal process calculations; Principles of food preservation ; psychrometry; conditioning and drying of food grains; concentration and dehydration of foods; evaporators, tray, drum and spray dryers; processes and machines for processing of cereals pulses and oil seeds. Grain conveying and handling equipments-operation and maintenance. Planning and design of farmstead, livestock and animal housing; poultry shed; animal feed handling and waste disposal system; storage of fruit vegetable and other perishable products, estimating and cost analysis of farm buildings.

Soil and Water Engineering:

Water resources of India. Hydrologic cycle; principles and mechanics of soil erosion; land leveling criteria, equipment; biological and engineering measures to control erosion; ponds and earth embankments; watershed management; well hydraulics; tube well design, construction, development; type of irrigation pumps and design; water measuring devices and conveyance systems; soil plant water relationship, irrigation methods design and evaluation; efficiencies, surface drainage of agricultural lands, sub surface drainage; reclamation of saline/alkaline soils; command area development; land use capability. classifications; irrigation scheduling; canal outlets types, design; conjunctive use of water; economical of irrigation.

Mathematics and Statistics:

Introduction to mathematical statistics. Differential and integral calculus. Matrices and Fourier series; differential equations; vector algebra & vector calculus; elementary numerical analysis.

3. Model Questions :

Machinery and Power Engineering

1. The ratio between the power output of an engine and the energy in the fuel burned to produce that power is called
(A) Volumetric efficiency (B) Thermal efficiency
(D) Mechanical efficiency (C) Specific fuel consumption
2. When plates of a battery cell are made larger in size, we get increased :
(A) Current (B) Voltage
(C) Cell resistance (D) No change
3. The governor regulation of a tractor where speeds at no-load and at full load are 1750 and 1650 rpm respectively is
(A) 6 % (B) 16%
(C) 10 % (D) 0.6%
4. Net traction coefficient is the ratio of net pull produced to the
(A) Normal load (B) Dynamic normal load
(C) Weight transfer (D) Total soil reaction
5. Which of the following is generally checked during wheel alignment in a garage
(A) Camber angle (B) Caster angle
(C) Toe-in (D) Kingpin inclination
6. Which of the following is a deep tillage implement
(A) Mould-board plough (B) Disc plough
(C) Chisel plough (D) Rotary plough
7. Which of these parameters is concerned with anthropometry
(A) Oxygen consumption (B) Muscular fatigue
(C) Dimensions of limbs (D) All of these
8. On an average the hydrogen content in a biomass is
(A) 40-50% (B) 30-45%
(C) 4-7% (D) 1-3%
9. Solar energy is distributed over entire surface of earth facing the sun and it seldom exceeds
(A) 0.1 MW/m² (B) 1.0 kW/M²
(C) 1.0 MW/m² (D) 1.0 MW/mm²

10. Biomass gasifier is used to produce
- | | |
|------------|------------------|
| (A) Biogas | (B) Producer gas |
| (C) LP Gas | (D) CN Gas |

Processing and Food Engineering :

11. Energy required to reduce a very large feed to such a size that 8/0% of the product passes through 100 m screen is called
- | | |
|-----------------|----------------------|
| (A) Tyler Index | (B) Power Index |
| (C) Work Index | (D) Uniformity Index |
12. In Cryogenic freezer, the most commonly refrigerant (Cryogen) used is :
- | | |
|-------------|---|
| (A) Ammonia | (B) Helium |
| (C) Oxygen | (D) Liquid nitrogen and liquid carbon dioxide |
13. The time and temperature for (HIST) process of milk pasteurization is :
- | | |
|-----------------------|-----------------------|
| (A) 30 min and 62.8°C | (B) 45 min and 56.1°C |
| (C) 15 sec and 71.7°C | (D) 2 sec and 126.7°C |
14. Which of the following is not a processing operation ?
- | | |
|---------------|--------------------|
| (A) Winnowing | (B) Size reduction |
| (C) Dehusking | (D) Digestion |
15. The equipment used for size reduction in roller flour milling of wheat ?
- | | |
|--------------------|--------------------|
| (A) Reduction roll | (B) Hammer mill |
| (C) Rubber roll | (D) Attrition mill |
16. The most efficient oil extraction process is :
- | | |
|------------------------|---------------------------|
| (A) Hydraulic Press | (B) Mechanical Expression |
| (C) Solvent Extraction | (D) None of the above |
17. The process of removal of field heat from fruits & Vegetables is known as
- | | |
|------------------|-----------------------|
| (A) Cold storage | (B) Hypobaric storage |
| (C) CA Storage | (D) Pre-cooling |
18. The optimum moisture content for milling of paddy is
- | | |
|--------|--------|
| (A) 10 | (B) 12 |
| (C) 14 | (D) 18 |
19. Farmstead is generally designed in-----out of the total farm area
- | | |
|----------|-----------|
| (A) 6-8% | (B) 8-10% |
| (C) 3-5% | (D) 1-3% |
20. Exposure factor represents the-----heat loss from a building per animal per degree temperature difference
- | | |
|----------------|-----------------|
| (A) Conduction | (B) Convection |
| (C) Radiation | (D) Evaporation |

Soil and Water Engineering :

21. At drops of less than 3 m, which of the following structures is recommended ?
- | | |
|-------------------|-------------------------|
| (A) Drop spillway | (B) Chute spillway |
| (C) Pipe spillway | (D) Temporary check dam |

22. When the speed of a centrifugal pump is changed, the head varies as :
 (A) The speed (B) Square of the speed
 (C) Square root of the speed (D) Cube of the speed
23. For same discharge and best hydraulic cross section the head above the weir crest will be maximum in case of :
 (A) Triangular weir (B) Rectangular weir
 (C) Trapezoidal weir (D) Semi circular weir
24. The natural grassed waterways are generally found in the shape of
 (A) Square (B) Triangular
 (C) Parabolic (D) Rectangular
25. The grassed waterways are lined with
 (A) Bricks (B) Masonry materials
 (C) Grass cover of dry mass (D) Live erosion resistant grasses
26. In underground pipeline system the line terminates at
 (A) Air vent (B) End plug
 (C) Riser valve (D) Pump stand
27. The sheet of water which overflows a weir is called
 (A) Head (B) Static head
 (C) Nappe (D) None
28. Tensiometer is used for finding out
 (A) Permanent wilting point (B) Field capacity
 (C) Wilting point (D) Available water
29. The infiltration rate-----during irrigation
 (A) Increases (B) Decreases
 (C) Both (A) and (B) (D) None of the above
30. Confined aquifer is also called as
 (A) Free aquifer (B) Water table aquifer
 (C) Artesian aquifer (D) Non-artesian aquifer

Mathematics and Statistics :

31. The particular integral of the differential equation $y'' - 2y' = e^{x+x}$ is
 (A) x^2e^x (B) $2x+x^2e^x$
 (C) $2+x+\frac{1}{2}x^2e^x$ (D) xe^{x+4}
32. The value of the integral $\int_{-\infty}^{+\infty} \int_{-\infty}^{+\infty} e^{x^2+y^2} dx dy$ is
 (A) π (B) π
 (C) $2/q\pi$ (D) 2π

MET-CE
(Civil Engineering)

1. Test structure

- (a) There will be 200 multiple choice type questions to be attempted in allotted time of 3 hours.
- (b) The admission shall be made based on the merit list within the discipline as per University rules.

2. Syllabus

Force, moment, equilibrium, friction, moment of inertia, Simple stresses and strains, strain energy, shear force and bending moment, Direct and bending stresses, deflection, fixed and continuous beams, torsion, principal stresses and strains, thick and thin cylinders, columns and struts, rolling loads and influence lines, Design of various RCC and steel structural members. Laminar and turbulent flow, open channel flow, flow measurement, dimensional analysis. Hydrological cycle, hydrographs, stream flow, flood estimation, reservoir and channel routing. Duty, delta, evapo-transpiration, canals, waterways, head works, dams and spillways, irrigation methods. Index and engineering properties, consolidation, compaction, sub soil exploration, foundations. Surface and subsurface water resources, demand for water standards for potable water. Intake of water, Water treatment, storage and distribution. Domestic and industrial wastes, flow through sewers, sewer appurtenances, plumbing. Sewage characterization, standards of disposal, sewage treatment, recycling of waste water.

3. Model Questions :

1. If the given system of coplanar and concurrent forces F_1, F_2, F_3 and F_4 is such that force polygon does not close, then the system will always
 - (A) Reduce to a resultant force
 - (B) Be in equilibrium
 - (C) Reduce to a couple
 - (D) Be in equilibrium and will always

2. The deflection at the free end of a cantilever subjected to couple M at its free end having a uniform flexural rigidity EL through its length 'L' is equal to
 - (A) $ML^2/(3EI)$
 - (B) $ML^2/(2EI)$
 - (C) $ML^3/(8EI)$
 - (D) $ML^2/(8EI)$

3. The loss of head due to sudden expansion in a pipe flow is given by
 - (A) $fLV^2/(2gd)$
 - (B) $(V_2^2 - V_1^2)/2g$
 - (C) $(V_1 - V_2)^2/2g$
 - (D) None of the above

4. For the upstream slope of an earth dam, the most critical condition is
- | | |
|---|--|
| (A) Sudden draw down condition | (B) Steady seepage condition |
| (C) Neither sudden draw down nor steady seepage | (D) During construction when reservoir is allowed to be filled |
5. Garnett's diagrams are used for graphical solution of design equations of a canal by
- | | |
|--------------------|----------------------|
| (A) Lacey's theory | (B) Kennedy's theory |
| (C) Gibb's theory | (D) Lindlay Theory |
6. The characteristic strength of concrete is defined as that compressive strength below which not more than
- | | |
|-------------------------|------------------------|
| (A) 10% of results fall | (B) 5% of results fall |
| (C) 2% of results fall | (D) None of the above |
7. The toughness index of clayey soils is given by
- | | |
|-----------------------------------|-----------------------------------|
| (A) Plasticity index/Flow index | (B) Liquid limit/Plastic limit |
| (C) Liquidity index/Plastic limit | (D) Plastic limit/Liquidity index |
8. The sequent depth ratio of a hydraulic jump in a rectangular horizontal channel is 10.30. The Froude Number at the beginning of the jump is
- | | |
|----------|-----------|
| (A) 5.64 | (B) 7.63 |
| (C) 8.05 | (D) 13.61 |
9. Temporary hardness in water is caused by the presence of
- | | |
|-------------------------------|----------------------------|
| (A) Bicarbonates of Ca and Mg | (B) Sulphates of Ca and Mg |
| (C) Chlorides of Ca and Mg | (D) Nitrates of Ca and Mg |
10. Chlorine is sometimes used in sewage treatment
- | | |
|--|---|
| (A) to avoid flocculation | (B) to increase biological activity of bacteria |
| (C) to avoid bulking of activated sludge | (D) to help in grease separation |

MET- CSE
(Computer Science and Engineering)

1. Test Structure

- (a) There will be 200 multiple choice type questions to be attempted in allotted time of 3 hours.
- (b) There will be a common merit list for the purpose of admission through counseling as per university rules.

2. Syllabus

Digital Logic: Logic functions, Minimization, Design and synthesis of combinational and sequential circuits, Number representation and computer arithmetic.

Computer Organization and Architecture: Machine instructions and addressing modes, ALU and data path, CPU control design, Memory interface, I/O interface, Instruction pipelining, Cache and main memory, Secondary storage.

Programming in C and Data Structures: Functions, Recursion, Parameter passing, Scope, Binding, Abstract data types, Arrays, Stacks, Queues, Linked Lists, Trees, Binary search trees, Binary heaps.

Concepts of Operating System, Databases, Computer Networks.

Fundamentals of Electric Circuits, Analog and Digital Electronics.

3. Model Questions

1. Applying DeMorgan's theorem to the expression $(A'B')C'$, we get
 - (A) $(A+B) + (C)$
 - (B) $A(B+C)$
 - (C) Both A & B
 - (D) None of the above
2. Express the decimal number 57 in binary
 - (A) 100101
 - (B) 111010
 - (C) 110010
 - (D) 111001
3. The goal of structured programming is to
 - (A) have all indented programs
 - (B) be able to infer the flow of control from the compiled code
 - (C) be able to infer the flow of control from the program text
 - (D) avoid the use of GOTO statements
4. An organization has a class B network and wishes to form subnets for 64 departments. The subnet mask would be
 - (A) 255.255.0.0
 - (B) 255.255.64.0
 - (C) 255.255.128.0
 - (D) 255.255.252.0
5. The minimum number of page frames that must be allocated to a running process in a virtual memory environment is determined by
 - (A) the instruction set environment
 - (B) page size
 - (C) physical memory size
 - (D) number of processes in memory

6. The best data structure to check whether an arithmetic expression has balanced parentheses is a
- (A) queue (B) stack
(C) tree (D) list
7. Consider the following C function:
- ```
int f(int n)
{static int I =1;
if (n>=5) return n;
n=n+1;
i++;
return f(n);
}
```
- The value returned by f(1) is
- (A) 5 (B) 6  
(C) 7 (D) 8
8. The address resolution protocol (ARP) is used for
- (A) Finding the IP address from the DNS (B) Finding the IP address of the default gateway  
(C) Finding the IP address that corresponds to the MAC address (D) Finding the MAC address that corresponds to an IP address
9. A master-slave flip-flop has the characteristic that
- (A) change in the input immediately reflected in the output (B) change in the output occurs when the state of the master is affected  
(C) change in the output occurs when the state of the slave is affected (D) both the master and the slave states are affected at the same time
10. The 8085 assembly language instruction that stores the content of H and L registers into the memory location  $2050_H$  and  $2051_H$ , respectively, is
- (A) SPHL  $2050_H$  (B) SPHL  $2051_H$   
(C) SHLD  $2050_H$  (D) STAX  $2050_H$
11. A twisted pair of wires is used for connecting the signal source with the instrumentation amplifier, as it helps reducing
- (A) the effect of external interference (B) the error due to bias currents in the amplifier  
(C) the loading of the source by the amplifier (D) the common mode voltage
12. Which BJT amplifier(s) has (have) a phase inversion between input and output signals?
- (A) common-base (B) common-collector  
(C) common-emitter (D) All of the above



**MET -MCA**  
**(Master of Computer Applications)**

**1. Test structure**

- a) There will be 100 multiple choice questions to be attempted in allotted time of two hours.
- b) There will be a common merit list for the purpose of admission through counseling as per university rules.

**2. Syllabus**

**Computer Basics:** Organization of a Computer, Central Processing Unit (CPU), Structure of Instructions in CPU, Input/output devices, Computer Memory, Memory organization, back-up devices.

**Data Representation:** Representation of characters, integers and fractions, binary and hexadecimal representations, Binary Arithmetic: Addition, subtraction, division, multiplication, floating point representation of numbers, normalized floating point representation, Boolean algebra: truth tables, Venn diagrams.

**Computer Architecture:** Block structure of Computers, communications between processor and I/O devices, Interrupts.

**Computer Language and Operating Systems:** Flowcharts and algorithms, Concepts of low level and high level Languages, Computer Programming in C (data types, loop and control statements, functions), Fundamentals of operating systems: multiprogramming, multitasking and time sharing systems.

**Concepts of Data Base Management System, Data Structures and Internet Web Technologies.**

**3. Model Questions:**

- 1. An 8-bit unit of data is called
  - (A) Word
  - (B) Data set
  - (C) Byte
  - (D) K
- 2. Pick the odd man out
  - (A) Internet Explorer
  - (B) Windows Explorer
  - (C) Netscape Navigator
  - (D) Mosaic
- 3. Which of the following is not an operating system?
  - (A) DOS
  - (B) JAVA
  - (C) LINUX
  - (D) WINDOWS XP
- 4. The standard number of characters in the Extension of file name are
  - (A) 2
  - (B) 3
  - (C) 4
  - (D) 5
- 5. The operator = = is
  - (A) Assignment operator
  - (B) Relational operator
  - (C) Logical operator
  - (D) None of the above

6. One GB stands for
- (A)  $10^3$  (B)  $10^6$   
 (C)  $10^9$  (D)  $10^{12}$
7. Power consumed by a PC without printer is
- (A) About 200W (B) About One KW  
 (C) About 50 W (D) About 1.5 KW
8. Integer Constant in list below is
- (A) 38.34 (B) Rs 40  
 (C) 5,6 (D) - 23
9. A header file in c / c++ is of type
- (A) ASCII (B) Some characters can be made bold in it  
 (C) Its listing cannot be got (D) It cannot be changed by user
10. An 8-list micro controller with an external RAM has the memory map from 8000 H to 9FFFH. The number of bytes this RAM can store is
- (A) 8193 (B) 8191  
 (C) 8192 (D) 8000
11. Consider the following C program
- ```
main( )
{ int x, y, m, n;
scanf("%d %d",&x, &y);
/* Assume x>0 and y>0 */
m = x; n = y;
while(m! =n)
{ if(m>n)
m = m - n;
else
n = n - m; }∞Σn = 1
printf("%d",n); }
```
- The program computes
- (A) $x + y$, using repeated subtraction (B) $x \bmod y$ using repeated subtraction
 (C) the greatest common divisor of x and y (D) the least common multiple of x and y
12. In an 8085 microprocessor, which one of the following is the correct sequence of the machine cycles for the execution of the DCR M instruction?
- (A) op-code fetch (B) op-code fetch, memory read, memory write
 (C) op-code fetch memory read (D) op-code fetch memory write, memory write

MET-HOME SCIENCE

1. Test structure

- (a) The question paper will have to be attempted in 3 hrs.
- (b) Section I General Home Science will be compulsory for all the candidates.
- (c) Section II will be of candidate's choice out of FIVE disciplines namely:
 - 1. Food and Nutrition
 - 2. Human Development
 - 3. Family Resource Management
 - 4. Clothing & Textiles
 - 5. Home Science Extension and Communication Management

Any change in choice of discipline will not be allowed at the time of examination.

- (d) Candidates will attempt 200 multiple choice type questions i.e. 150 (**Section I**) and 50 (**Section II**)
- (e) The admission shall be made based on the merit list within the discipline as per university rules.

2. Syllabus

Section I :

General Home Science

Elements of human nutrition i.e. food groups and the nutrients contributed by each group to the diet, composition and nutritive value of foods, food processing and preservation and quality control, meal planning i.e. principles, menu planning for normal individuals of different age groups and at different stages of life, diet therapy, community nutrition, health and nutrition policy and programmes in India. Introduction to child/human development meaning, concept, principles, prenatal development, care of new born, prenatal and postnatal care of mother, development of child in early and late childhood, adolescence-development and relationship with peers & family, marriage and family dynamics, family life cycle, child study methods. Concepts and principles of management, management process, work, work environment, work simplification, fundamentals of housing, principles of design, elements of art and home furnishing-selection, care and maintenance of accessories, equipments, furniture and furnishings. Family finance/economics and consumer education. Introduction to clothing construction-sewing machine, its parts and use, preparation of fabrics for lay out and cutting, textile fibre-classification, processing/manufacturing method, clothing need of family members, household textile and consumers, weaving and hosiery, traditional textiles and embroideries of India, care of clothing and textile finishes, dyeing & printing. Introduction to Home Science Education, communication and extension methods, programme planning & evaluation, entrepreneurial education, projected and non-projected aids (audio-visual aids), rural development programmes in India.

Section II :

Food and Nutrition

Institutional food management, baking, food related laws and quality control and marketing management and salesmanship.

Human Development

Early childhood education, guidance and counselling, child care and family welfare, family life education and marketing management and salesmanship.

Family Resource Management

Applied art and craft, flower arrangements, interior decoration, computer aided interior designing and marketing management and salesmanship.

Clothing and Textiles

Weaving and knitting, dyeing and printing, pattern making and dress designing, computer aided fashion designing and marketing management and salesmanship.

Home Science Extension and Communication Management

Information technology, distance education, computerized instructional aids production and marketing management and salesmanship.

3. Model Questions

Section I :

General Home Science

1. Sodium in the body is present in:
(A) Extracellular fluid
(B) Intracellular fluid
(C) None
(D) Both
2. Soya proteins are limiting in:
(A) Lysine
(B) Methionine
(C) Threonine
(D) None
3. It is one of the classifications of standards:
(A) Intrinsic & extrinsic
(B) Conventional & non-conventional
(C) Human & non-human
(D) Economic & non-economic
4. On which side we have deep *verandah*?
(A) South
(B) West
(C) South & West
(D) North & West
5. Jean Piaget is known for his contribution to:
(A) Physical development
(B) Social Development
(C) Cognitive development
(D) Emotional development
6. Growth refers to:
(A) Qualitative changes
(B) Quantitative changes
(C) Sequential changes
(D) Normal changes

7. Fabric most suitable for making baby garments is:
- (A) Silk (B) Cotton
(C) Rayon (D) Nylon
8. The following is regenerated fibre made from cellulose
- (A) Nylon (B) Rayon
(C) Orlon (D) Polyester
9. Who was the Chairman of Committee when Panchayati Raj ordinance was passed?
- (A) Jawaharlal Nehru (B) Gulzari Lal Nanda
(C) Balwant Rai Mehta (D) Mahatma Gandhi
10. "Cone of Experience" was devised by:
- (A) A.A. Reddy (B) Edge Dale
(C) Rogers (D) O.P. Dhama and Bhatnagar

Section II :

Food and Nutrition

1. HACCP principles are most widely applied to:
- (A) Chemical hazards (B) Microbiological hazards
(C) Physical hazards (D) All of the above
2. The goal of every food service established is to make:
- (A) Sales (B) Preparations
(C) Profits (D) Money

Human Development

1. Motor development depends on:
- (A) Learning (B) Maturation
(C) Imitation (D) Neural and muscular maturation
2. Which step of Directive Counseling depends upon the available specific information?
- (A) Analysis (B) Synthesis
(C) Prognosis (D) Treatment

Family Resource Management

1. What is the concept which holds that consumer will favour those products that offer the most quality and performance feature?
- (A) Production concept (B) Product concept
(C) Marketing concept (D) Selling concept
2. Consumer rights have been compiled by:
- (A) Consumer Disputes Redressal Commission (B) Consumer Forum

ANNEXURE I

CERTIFICATE FOR SCHEDULED CASTES/SCHEDULED TRIBES (SC/ST)

Despatch No. _____

Date _____

1. It is certified that Shri/Smt./Kumari _____
son/daughter of Shri _____
of village/town _____
District/Divison _____ State of Punjab
belongs to _____ Caste which has been recognised as Scheduled
Caste as per
"The Constitution (Scheduled Castes) Order, 1950".
2. Shri/Smt./Kumari _____ and his/her family lives in village/
town _____ District/Division of Punjab State.

Place _____

Date _____

Signature _____

Designation _____

(with seal of office)

Authorities competent to issue SC/ST Certificate :

- (i) M.Ps. in respect of Scheduled Caste persons residing in their respective parliamentary constituencies.
- (ii) M.L.As. in respect of Scheduled Caste persons residing in their respective assembly constituencies.
- (iii) All gazetted officers of the State Government.
(Declared as such vide letter No. 460/WG/56/4799 dated 25-01-1956 and 1/19/94-RCI/6045 dated 15-07-1994).
- (iv) Tehsildar/Naib Tehsildar (In partial modification of Letter No. 1/8/07-ਰਸ 1/1295 dated 2-11-10 issued vide letter no. 1/8/2007-ਰਸ 1/1047 dated 16-12-2011)

N.B. : In case the certificate is found to be false or incorrect, the candidate will render himself/herself liable for criminal prosecution.

ANNEXURE II

CERTIFICATE TO BE PRODUCED BY THE CANDIDATE IN SUPPORT OF CLAIM OF BELONGING TO BACKWARD CLASS (B.C.)

1. This is to certify that Shri/Smt./Kumari _____ son/daughter of _____ village/town _____ in District/ Division _____ of the State of Punjab, belongs to the _____ caste which is recognised as a Backward Class in terms of Punjab Government letter No. _____.
2. This is also verified that income of the family from all sources does not exceed Rs. 4,50,000/- (Rs. Four lakh and fifty thousand) per annum in terms of letter No. 1/41/93-RC-1/209 dated 24.2.09 from the Joint Secretary Welfare to Government of Punjab, Welfare Department, Chandigarh.
3. Shri/Smt./Kumari _____ and/or his/her family ordinarily resides in village/town _____ of District/Division of the State of Punjab.

Place _____

Date _____

Signature _____

Designation _____

(with seal of office)

Authorities competent to issue B.C. Certificate:

Deputy Commissioner, Additional Deputy Commissioner, Sub-Divisional Magistrate, Executive Magistrate (PCS Officers only), Tehsildar.

- N.B.:**
1. Other backward class candidates will not be considered under this category.
 2. In case the certificate is found to be false or incorrect, the candidate will render himself/herself liable for criminal prosecution.

ANNEXURE III

CERTIFICATE TO BE FURNISHED BY THE CHILDREN/GRAND CHILDREN OF FREEDOM FIGHTER (F/F)

Certified that Shri/Smt./Kumari _____ an applicant for admission to undergraduate/post graduate programme at Punjab Agricultural University, Ludhiana is a son/daughter/son's son/son's daughter or daughter's son/daughter's daughter (delete whichever is not applicable) of Shri _____ who is a freedom fighter/Tamra Patra holder and/or drawing pension from _____ treasury as per Punjab Govt. Rules/Instructions.

Place _____

Date _____

Signature _____

Designation _____
(with seal of office)

Authorities competent to issue F/F Certificate :

District Magistrate

N.B.: In case the certificate is found to be false or incorrect, the candidate will render himself/herself liable for criminal prosecution.

ANNEXURE IV

CERTIFICATE TO BE FURNISHED BY THE CANDIDATE IN SUPPORT OF CLAIM OF BEING CHILD OF INSERVICE/EX-SERVICE IN ARMED FORCES/C.R.P./B.S.F. OFFICERS/OFFICIALS (INCLUDING OFFICERS/OFFICIALS WHO DIED DURING THEIR SERVICE) CHILDREN//WIDOWS OF PARA-MILITARY FORCES PERSONNEL, PUNJAB POLICE, PAP AND PUNJAB HOME GUARDS KILLED OR DISABLED IN ACTION TO THE EXTENT OF 50% OR MORE AND WARDS OF PUNJAB POLICEMEN DECORATED WITH GALLANTRY MEDALS (A/F)

1. Certified that _____ father/mother of _____ is in regular service of Armed Forces/CRP/BSF since _____ and presently he/she is serving in this unit as _____ (designation).

2. It is certified that No. _____ Rank _____ Name _____ is a resident of _____ Village/Town _____ Tehsil _____ District _____ and has served in the Indian Armed Forces from _____ to _____ and has been released/retired vide order No. _____ Dated _____ or discharge certificate issued by _____ is an ex-serviceman. Shri/Smt./Kumari _____ son/daughter/wife of _____ is residing with him and is wholly dependent upon him.

3. Certified that _____ father/mother of _____ is/was in service of Armed Forces/CRP/BSF from _____ to _____ as _____ (designation) and died during service.

This certificate has been issued for admission purpose only to Shri/Smt./Kumari _____ to apply for (name of the class/course) _____ in (name of the educational Institution) _____.

Place _____

Date _____

Signature of the _____

Attesting Authority _____

(Seal or stamp of the officer signing the certificate must be affixed here)

The above certificate may be signed by the Head of the unit in which the father/mother of the candidate is serving. In case of ex-serviceman, the certificate may be signed by the Secretary, District Soldiers, Sailors and Airmen Board.

Despatch No.....

Dated.....

CERTIFICATE OF DEATH/INCAPACITATION OF PARA-MILITARY PERSONNEL

Certified that Mr./Ms.....an applicant for admission tocourse in Punjab Agricultural University, Ludhiana is the son/daughter/spouse of Mr./Ms.....who was killed/incapacitated to the extent of 50% or more in action or died otherwise in service on/or incapacitated to the extent of 50% or more while in service during peace time.

Dated.....

Signature of Authorised Officer Headquarter

Official Seal

Despatch No.....

Dated.....

CERTIFICATE OF GALLANTRY AWARD TO POLICE PERSONNEL

Certified that Mr./Ms.....an applicant for admission in.....course in Punjab Agricultural University, Ludhiana is the son/daughter/spouse of Shri.....who was awarded President's Police Medal/Police Medal for gallantry.

Dated..... Official Seal

Signature of Inspector General of Police

N.B.: In case the certificate is found to be false or incorrect, the candidate will render himself/herself liable for criminal prosecution.

ANNEXURE V

CERTIFICATE TO BE ISSUED BY THE SUB-DIVISIONAL OFFICER (CIVIL) IN RESPECT OF INNOCENT CIVILIANS KILLED/100% PHYSICALLY INJURED BY TERRORISTS/SECURITY FORCES ACTING IN AID OF CIVIL POWER (T.A.) AND ALSO WHO AFFECTED IN NOVEMBER, 1984 RIOTS AND INTERNAL/EXTERNAL MIGRANTS.

1. It is certified that Mr/Mrs _____ son/daughter/wife of Mr./Ms _____ resident of _____ (Name of village, tehsil (in case the deceased belonged to rural area) house number, name of mohalla and area of town to which he/she belongs) was killed/ 100% physically disabled by the terrorists/security forces acting in aid of civil power on _____ in Village/Mohalla _____ Tehsil/Town _____ District _____ . He was neither terrorist nor having any links with such elements.

2. It is certified that Mr/Ms _____ son/daughter/wife of Mr./Ms _____ whose father/mother was killed/100% physically disabled in November, 1984 riots at _____ (Name of place) or his/her family has migrated from _____ (within Punjab or any other state in India) and has settled at _____.

3. It is certified that Mr. _____ Code No. _____ of Regiment _____ father of Mr/Ms _____ who was killed/100% physically disabled while deserting the Indian Army.

4. This certificate is being issued for admission purpose only to Mr/Ms _____ to apply for admission to PAU.

Place _____

Date _____

Signature _____

Designation _____

(with seal of office)

Authorities competent to issue T.A. Certificate :

Sub-Divisional Officer (C)

N.B.: In case the certificate is found to be false or incorrect, the candidate will render himself/herself liable for criminal prosecution.

ANNEXURE VI

(Form I to V)

Authorities Competent to issue Disability Certificate on behalf of the **MEDICAL AUTHORITY**.

SN	Type of Disability	Hospital/Institution which is being specified as the “Medical Authority” for the purpose of the disability mentioned in Col 2	Medical Officer working in the Hospital/Institution mentioned in Col 3 who would be competent to issue certificate of disability
1	2	3	4
1.	Obvious Disability on Form-II (i) Locomotor Disability by way only of amputation or complete permanent paralysis of limbs. (ii) Blindness	All District Hospitals, Sub-Divisional Hospitals, Community Health Centres and Primary Health Centres	Medical Superintendent / SMO or a Senior Doctor authorized by an order of MS/SMO of the hospital. SMO of CHC / SMO of PHC / MO incharge PHC.
2.	Multiple Disability on Form-III	All District Hospitals and Sub-Divisional Hospitals having (a) Specialists and (b) necessary measurement / assessment / evaluation facilities in relevant fields (eg. audiometric, optometric and other testing facilities).	A medical board as may be specified by a Medical Superintendent or Senior Medical Officer of the District Hospital / Sub-Divisional Hospital headed by a Senior Specialist and consisting of doctors with post graduate degree in the disciplines dealing with relevant disabilities.
3	Single Disability on Form-IV (Disabilities not mentioned at SN 1 & 2 above)	All District Hospitals Sub-Divisional Hospitals and Community Health Centers having specialists and necessary measurement assessment / evaluation facilities in relevant fields (eg. Audiometric optometric and other testing facilities).	A doctor having a PG degree in the disciplines dealing with relevant disabilities with a minimum of 3 years of service duly authorized by the Head of the Institution i.e. MS/ SMO.

Note:

- (i) For 3 types of disability certificates, hospitals as mentioned in Col 3 above have been notified as medical authority. In the event of non-availability of the concerned specialist in a particular health institution mentioned in Col 3, the SMO/MO incharge of that health institution would refer the applicant to the nearest higher health institutions where such specialists/ facilities are available.
- (ii) Likewise if a hospital mentioned in Col 3 above does not have the requisite assessment facilities for various disabilities, the head of such hospital may utilize the facilities available in the hospital of the Health Department in a nearby place in the district or refer the case to the Medical Colleges for testing facilities. The Medical Colleges where such cases can be referred are :
- Govt. Medical College, Amritsar
 - Govt. Medical College, Patiala
 - Govt. Medical College, Faridkot
 - Christian Medical College, Ludhiana

- Dayanand Medical College, Ludhiana
- Shri Guru Ram Dass Medical College, Amritsar
- Gian Sagar Medical College, Banur
- Adesh Medical College, Bathinda
- Punjab Institute of Medical Sciences, Jalandhar
- Govt Medical College, Sector – 32, Chandigarh
- Post Graduate Institute of Medical Education & Research (PGIMER), Chandigarh

(iii) Explanation

- Primary Health Centre means Block Primary Health Centre or Primary Health Centre run by Department of Health & Family Welfare.
- Community Health Centre means a Community Health Centre notified by the State Government as CHC and run by Punjab Health Systems Corporation.
- Sub-Divisional Hospital means a hospital notified by the State Government as SDH and run by Punjab Health Systems Corporation.
- District Hospital means Civil Hospital situated at district headquarter and run by Punjab Health Systems Corporation.

Form-I

APPLICATION FOR OBTAINING DISABILITY CERTIFICATE BY PERSONS WITH DISABILITIES

(See Rule 3)

1. Name.....
(Surname) (First name) (Middle name)
2. Father's Name..... Mother's Name.....
3. Date of Birth:/...../.....
DD / MM / YYYY
4. Age at the time of application :.....years
5. Sex : Male/Female
6. Address :
 - (a) Permanent address
 - (b) (Current Address (i.e. for communication))
 - (c) Period since when residing at current address.....
7. Education Status (Pl. tick as applicable)
 - (I) Post Graduate / Graduate / Diploma
 - (II) Higher Secondary / High School / Middle
 - (III) Primary / Illiterate
8. Occupation.....
9. Identification marks (i)..... (ii).....
10. Nature of disability : Visual / Hearing / Locomotor / Mental / others
11. Period since when disabled : From Birth / Since year.....
12. (i) Did you ever apply for issue of a disability certificate in the past ?.....YES/NO
(ii) If yes, details :
 - (a) Authority to whom and district in which applied.....
 - (b) Result of application.....

13. Have you ever been issued a disability certificate in the past? If yes, please enclose a true copy of

Certificate No.

Date

Issued By

.....

...../...../.....

.....

Declaration : I hereby declare that all particulars stated above are true to the best of my knowledge and belief, and no material information has been concealed or misstated. I further, state that if any inaccuracy or detected in the application. I shall be liable to forfeiture of any benefits derived and other action as per law.

.....

(Signature or left thumb impression of person with disability, or of his/her legal guardian in case of persons with mental retardation, autism, cerebral palsy and multiple disabilities)

Date :/...../.....

Place :

Form-II

DISABILITY CERTIFICATE (OBVIOUS DISABILITY)

(In cases of amputation or complete permanent paralysis of limbs and in cases of blindness)

(See rule 4)

(NAME AND ADDRESS OF THE HEALTH INSTITUTION)

Recent Passport size
attested photograph
(showing face only) of
the person with
disability.

Certificate No.

Date :

This is to certify that I have carefully examined Shri /Smt. /Kum.
.....son/ wife / daughter of
Shri.....Date of Birth...../...../..... Age.....years, male/ female.....
(DD/MM/YYYY)

Registration No.....permanent resident of House No. Ward / Village /
Street.....Post Office.....District.....State....., whose photo-
graph is affixed above, and am satisfied that –

(A) he/she is a case of :

- Locomotor disability
- blindness

(Please tick as applicable)

(B) the diagnosis in his/her case is

Encl:

1. Proof of residence (Please enclose a copy of one of the following documents)

- (a) ration card
- (b) voter identity card

(c) driving license

(d) bank passbook

(e) PAN card,

(f) passport,

(g) telephone, electricity, water and any other utility bill indicating the address of the applicant.

(h) a certificate of residence issued by a Panchayat, municipality, cantonment board, and gazetted officer or the concerned Patwari or Head Master of a Govt. school.

(i) in case of an inmate of a residential institution for persons with disabilities, destitute, mentally ill, etc., a certificate of residence from the head of such institution.

2. Two recent passport size photographs

.....
(For office use only)

Date :

Place

Signature of Issuing Authority

Stamp

Form-III
DISABILITY CERTIFICATE
(In case multiple disabilities)
(NAME AND ADDRESS OF THE HEALTH INSTITUTION)
(See rule 4)

Recent Passport size
 attested photograph
 (showing face only) of
 the person with
 disability.

Certificate No.

Date :

This is to certify that we have carefully examined Shri /Smt./
 Km.....son /wife/ daughter of
 Shri.....Date of Birth/...../.....Age, years, male/fe-
 male.....

(DD/MM/YYYY)

Registration No.....permanent resident of House
 No.....Ward/ Village / Street.....Post
 Office.....District.....State.....whose photograph is affixed
 above, and am satisfied that :

(A)He / She is a Case of Multiple Disability. His /her extent of permanent physical impairment / disability has been
 evaluated as per guidelines notified by Ministry of Social Justice and Empowerment No. 16-18/97-NI.I, New Delhi
 dated 1st June, 2001 and amendment from time to time for the disabilities ticked below, and shown again the
 relevant disability in the table below :

A) He/She has.....% (In figure.....percent (in words) permanent physical impairment /
 blindness in relation to his / her.....(part of body) as per guidelines notified by Ministry of Social Justice and
 Empowerment No. 16-18/97-NI.I, New Delhi dated 1st June, 2001 and amended from time to time.

2. The applicant has submitted the following document as proof of residence :-

Nature of Document	Date of Issue	Details of Medical authority Issuing certificate
		Name : Address :

Signature –

Seal –

Signature/ Thumb impression of the person whose favour disability certificate is issued

No.	Disability	Affected part of Body	Diagnosis	Permanent physical Impairment / mental disability (In %)
1	Locomotor disability	@		
2	Low vision	#		
3	Blindness	Both Eyes		
4	Hearing impairment	† h		
5	Mental retardation	X		
6	Mental-illness	X		

(B) In the light of the above, his/her over all permanent physical impairment as per guidelines notified by Ministry of Social Justice and Empowerment No. 16-18/97-NI-I, New Delhi dated 1st June, 2001, is as follows :-

In figures :-.....percent

In Words: -.....percent

2. This condition is progressive/ non-progressive/ likely to improve/ not likely to improve.

3. Reassessment of disability is –

(i) not necessary,

Or

(ii) is recommended / after.....years.....months, and therefore this certificate shall

be valid till...../...../.....

(DD/MM/YYYY)

-@-e.g. Left / Right/ both arms / legs

-#- e.g. Single eye / both eyes

- - e.g. Left / Right / both ears

The applicant has submitted the following document as proof of residence :-

Nature of Document	Date of issue	Details of authority issuing certificate

5. Signature and seal of the Medical Authority.

Name and seal of Member	Name and seal of Member	Name and seal of the Chairperson

Signature/ Thumb im-
pression of the person
whose favour disability
certificate is issued

Form-IV
DISABILITY CERTIFICATE (SINGLE DISABILITY)
(In case other than those mentioned in Forms II and III)
(NAME AND ADDRESS OF THE HEALTH INSTITUTION)
(See rule 4)

Recent Passport size
attested photograph
(showing face only) of
the person with
disability.

Certificate No.

Date :

This is to certify that we have carefully examined Shri/ Smt. / Kum.....son/
wife/ daughter of Shri.....Date of Birth...../...../.....Age.....years,
male/female..... (DD/MM/YYYY)

Registration No.....permanent resident of House No.....Ward/ Villages/
Street.....Post Office.....District.....State.....whose
photograph is affixed above, and am satisfied that he/she is a case ofdisability. His /her
extent of percentage physical impairment/ disability has been evaluated as per guidelines notified by Ministry of Social
Justice and Empowerment No. 16-18/97-NI.I, New Delhi dated 1st June, 2001 and amended from time to time and is
shown against the relevant disability in the table below :-

Serial No.	Disability	Affected part of Body	Diagnosis	Permanent physical Impairment / mental disability (In %)
1	Locomotor disability	@		
2	Low vision	#		
3	Blindness	Both Eyes		
4	Hearing impairment	h		
5	Mental retardation	X		
6	Mental-illness	X		

(Please strike out the disabilities which are not applicable.)

2. The above condition is progressive/ non-progressive / likely to improve/ not likely to improve.
3. Reassessment of disability is –
- (i) not necessary,
- Or
- (ii) is recommended / after.....years.....months, and therefore this certificate shall be valid till...../...../.....

DD/MM/YYYY

-@-e.g. Left / Right /both arms / legs

-# - e.g. Single eye / both eyes

-- e.g. Left / Right /both ears

4. The applicant has submitted the following document as proof of residence :-

Nature of Document	Date of issue	Details of Medical authority issuing certificate
		Name : Address :

Signature –

Seal –

Form-V
Intimation of Rejection of Application for Disability Certificate
(In cases other than those mentioned in Forms II and III
(See rule 4)

No:.....

Date:

To

(Name and address of applicant
for Disability Certificate)

Subject : Rejection of Application for Disability Certificate.

Sir / Madam,

Please refer to your application dated.....for issue of a Disability Certificate for the following disability:

.....

2. Pursuant to the above application, dated you were examined by the undersigned / Medical Board on.....and I regret to inform that, for the reasons mentioned below, it is not possible to issue a disability certificate in your favour :

- (i)
- (ii)
- (iii)

3. In case, you are aggrieved by the rejection of your application you may represent to.....requesting for review of this decision.

Yours faithfully,

Signature-

Name-

Address-

Seal-

ANNEXURE VII

**CERTIFICATE TO BE PRODUCED BY THE CANDIDATE IN SUPPORT OF
CLAIM OF KASHMIRI MIGRANT (KM)**

No. _____

Date _____

It is certified that Sh./Smt./Kumari _____ Son/Daughter of
_____ Resident of _____ Tehsil
_____ District _____ is Kashmiri migrant.
He/She is original resident of _____ Tehsil
_____ District _____.

The Certificate is being issued to Sh./Smt./Kumari _____ to apply for admission
to _____ programme at Punjab Agricultural University, Ludhiana.

Signature _____

Designation _____
(with seal of office)

Authority competent to issue Kashmiri Migrant Certificate :

District Magistrate.

NB.: In case the Certificate is found false or incorrect, the candidate will render himself/herself liable for criminal prosecution.

ANNEXURE VIII

**CETIFICATE TO BE PRODUCED BY THE CANDIDATE IN SUPPORT OF
CLAIM OF TSUNAMI AFFECTED (TSA)**

No. _____

Date _____

It is certified that Shri/Smt./Kumari _____ Son/Daughter
of _____ Resident of _____ Tehsil _____
District _____ is Tsunami affected. He/She is resident of _____
Tehsil _____ District _____.

Signature _____

Designation _____

(with seal of office)

Authority competent to issue Tsunami affected Certificate :

District Magistrate

NB : In case the Certificate is found false or incorrect, the candidate will render himself/herself liable for criminal prosecution.

ANNEXURE IX
Residence Certificate

****CERTIFICATE TO BE ISSUED BY THE PRINCIPAL/HEAD MASTER OF THE GOVERNMENT/RECOGNISED SCHOOL/COLLEGE CONCERNED IN CASE OF CATEGORY (b) (i)**

It is certified that Miss/Mr. _____ D/
o/S/o Sh. _____ has been a student of this School/College
for a period of _____ years, from _____ to _____.
He/She left the School/College on _____.

Dated _____

Signature of Principal/Head Master
of the School/College (with seal)

****CERTIFICATE TO BE ISSUED BY HEAD OF THE DEPARTMENT
IN CASE OF CATEGORY (b) (ii) (a).**

Certified that Mr./Ms. _____ S/o/W/o Sh. _____
father/mother of Miss/Mr. _____ (name of the Child/Ward)
is an employee of the _____ (name of Office) of Punjab Government.
He/She is working as _____ and is posted at _____
He/She has more than three years service at his/her credit.

Date _____

Head of Deptt. (Seal)

Place _____

OR

Certified that Mr./Mrs. _____ S/o/W/o Sh. _____ is father/mother
of Miss/Mr. _____ is an employee of the _____ of Punjab
Government. He/She is working as _____ on deputation with the
_____ and is posted at _____. He/She has more than three
years service at his/her credit.

Place _____

Head of the Department
(with seal)

Dated _____

**** CERTIFICATE TO BE ISSUED BY THE RESPECTIVE HEAD OF THE DEPARTMENT
IN THE CASE OF CATEGORY (b) (ii) (b).**

Certified that Mr./Mrs. _____ S/o/W/o Sh. _____ is father/
mother of Miss/Mr. _____ is an employee of Govt. of India and he/
she is working as _____. He/She has been posted at Chandigarh/Punjab in connection
with the affairs of Punjab Government for the past three years.

Dated _____

Head of the Department
(with seal)

****CERTIFICATE TO BE ISSUED BY THE RESPECTIVE HEAD OF THE DEPARTMENT
IN THE CASE OF CATEGORY (b) (ii) (c).**

Certified that Mr./Mrs. _____ S/o/W/o/ Sh. _____ is father/
mother of Miss/Mr. _____ is an employee of _____ (Institution/Undertaking)
of the Government of Punjab and is working as _____. He/She has been
posted at Chandigarh/Punjab in connection with affairs of Punjab Government for period of past three
years.

Dated _____

Head of the Department
(with seal)

****CERTIFICATE TO BE ISSUED BY THE RESPECTIVE HEAD OF THE DEPARTMENT
IN THE CASE OF CATEGORY (b) (ii) (d).**

Certified that Mr./Mrs. _____ S/o/W/o/ Sh. _____ is father/
mother of Miss/Mr. _____ is an employee of
_____. (name of autonomous body/company) _____ in
which the Punjab Government has 20% or more share. He/She is working as _____
and is posted at _____ It is also certified that he/she has three years service in the above
said autonomous body/company.

Dated _____

Head of the Department
(with seal)

****RESIDENCE CERTIFICATE TO BE ISSUED BY THE DC, ADC(R), ADC (D), SDM, ASSTT.
COMMISSIONER GENERAL, DORG, DRO, EM, TEHSILDAR, COMMISSIONERS
OF MUNICIPAL CORPORATIONS OF AMRITSAR, JALANDHAR, PATIALA
AND LUDHIANA IN CASE OF CATEGORIES (iv).**

Certified that Mr./Mrs. _____
S/o/W/o Sh. _____ father/mother/guardian
of Mr./Miss _____ (name of the Child/Ward with full address) has settled* in
Punjab or has resided* in Punjab for a period of 5 years from _____
to _____. He/She is working as _____.

*Strike out whichever is not applicable.
(name of profession, designation and job).

Dated _____

****RESIDENCE CERTIFICATE TO BE ISSUED BY THE DC, ADC (R), ADC (D), SDM, ASSTT. COMMISSIONER GENERAL, DORG, DRO, EM, TEHSILDAR, COMMISSIONERS OF MUNICIPAL CORPORATIONS OF AMRITSAR, JALANDHAR, PATIALA AND LUDHIANA IN CASE OF CATEGORY (v).**

Certified that Mr./Mrs. _____ S/o/W/o Sh. _____ father/mother/guardian of Mr./Miss. _____ (name of the Child/Ward with full address) hold immovable property at (place & district) _____ in the state of Punjab for the past _____ years.

Dated _____

****RESIDENCE CERTIFICATE TO BE ISSUED BY THE DC, ADC (R), ADC (D), SDM, ASSTT. COMMISSIONER GENERAL, DORG, DRO, EM, TEHSILDAR, COMMISSIONERS OF MUNICIPAL CORPORATIONS OF AMRITSAR, JALANDHAR, PATIALA AND LUDHIANA IN THE CASE OF CATEGORIES (vi).**

Certified that Miss/Mr. _____ S/o/D/o/ Sh. _____ resident of _____ was born in Punjab as per Birth Certificate.

Dated _____

* ***This affidavit is to be given by all candidates.***

** ***Any one of these certificates, as applicable to the candidate according to the Punjab Govt. instructions, is to be given.***

ANNEXURE X

**CERTIFICATE BY THE HEAD OF SECTION/DEPARTMENT/OFFICE FOR INSERVICE CANDIDATES OF
THE PUNJAB AGRICULTURAL UNIVERSITY AND PUNJAB GOVT. AND UNION TERRITORY OF
CHANDIGARH ONLY**

1. Certified that Shri/Smt./Kumari _____ is employed
in the office of _____ as _____ since _____

Also certified that he/she submitted his/her application to this office on _____ for
onward transmission to the Registrar, Punjab Agricultural University.

2. Certified that his/her service record, so far as known to me, is good and I am not aware of any
circumstances which may render him/her ineligible for admission to Punjab Agricultural University. Certified
that he/she has completed the period of probation of the post held by him/her.

No. _____

Signature _____

Date _____

Designation _____

Place _____

Section/Deptt./Office _____

Serial No.....

PUNJAB AGRICULTURAL UNIVERSITY

ENTRANCE TEST
ROLL NO.

**APPLICATION FORM
FOR ADMISSION TO _____**

(Academic Session 2012-13)

- IMPORTANT :** 1. The candidate must carefully read instructions given at the end of this form and in the prospectus before filling the form.
 2. CET and AAT applicants must bring this application form (duly filled) at the time of counselling.

FOR OFFICE USE ONLY			
Roll No. _____			
<i>Last Exam. passed</i>	<i>Name of Board/ University</i>	<i>Marks/OGPA/ OCPA obtained</i>	<i>%age of marks</i>
Category under which seeking admission..... Documents lacking..... Checked byRe-checked by..... Fees paid Rs.....Cashier.....A.O..... Admission No.....Admission Status..... Assistant.....Supdt.....			

Latest passport size photograph pasted with gum duly signed by the candidate & then attested by the Principal of recognised school/college or a gazetted officer.

FEE PARTICULARS (IF APPLICABLE)
 DRAFT NO.....
 DATE.....
 AMOUNT.....
 BANK NAME.....
 BRANCH.....
 NOTE : 1. BANK DRAFT SHOULD BE IN FAVOUR OF COMPTROLLER, PAU, LUDHIANA
 2. WRITE SR. NO. OF APPLICATION FORM AND YOUR NAME AT THE BACK OF BANK DRAFT.

TO BE FILLED BY THE CANDIDATE IN OWN HAND

- Name of the applicant (in block letters) _____
- Father's name (in block letters) _____
- Mother's name (in block letters) _____
- (a) Permanent Address _____

 (b) Correspondence address _____

 (c) Telephone No. with STD code (Landline) _____
 (d) Mobile No. _____
 (e) E-mail ID _____
- (a) Programme in which admission is sought (in block letters) _____

Contd.

(b) Name of the ENTRANCE TEST in which you will be appearing
(Separate application form is required to be filled in for each Test). _____

6. Are you a resident of Punjab/Union Territory of Chandigarh? Yes No

7A. Category(ies) under which admission sought (Please tick one) Bring the original as well as the attested copy(ies) of the relevant certificates as prescribed in Annexure I to VIII and Annexure C in case of sports person at the time of counselling/interview in support of your claim otherwise, candidature will be considered in general category only.

General	<input type="checkbox"/>
Scheduled Caste	<input type="checkbox"/>
Scheduled Tribe	<input type="checkbox"/>
Backward Class	<input type="checkbox"/>
Freedom Fighter	<input type="checkbox"/>
Armed Forces	<input type="checkbox"/>
Terrorist Affected	<input type="checkbox"/>
Disabled Persons	<input type="checkbox"/>
Kashmiri Migrant	<input type="checkbox"/>
Tsunami Affected	<input type="checkbox"/>
Sports Person	<input type="checkbox"/>

7B. If sports person (SP), mention the game played _____

8. Date of Birth
(As entered in the matriculation or equivalent certificate).
Attach attested copy _____

9. Nationality _____

10. Place of residence (Attach certificate as per Annexure-IX)
Not required for Ph.D. programme _____

11. (a) Occupation of the father/guardian _____
(b) Annual income of the father/guardian _____
(c) Address of the father/guardian _____
(d) Name of guardian with relation (If father is not alive) _____

12. Have you ever been a student of PAU? If yes, give full particulars _____

13. Have you ever been dropped/expelled/rusticated or denied admission to any school or college? If yes, give detailed reasons and period of dropping/expulsion/rustication. _____

14. Have you ever been found guilty of adopting unfair means in any examination or disqualified/debarred from appearing in any examination conducted by any Board/University? If yes, give details. _____

15. Have you ever been punished for ragging in previous institution ? _____

16. Details of examination(s) passed :

<i>Examination</i>	<i>Matriculation</i>	<i>10+2 or Equivalent</i>	<i>B.Sc. Agri. (Hons.)/ B.Sc./B.Tech. (Agril. Engg.)/B.Sc. (H.Sc.)/B.A./B.Com./B.C.A</i>	<i>M.Sc./M.Tech/ MBA Agribusiness/ MBA</i>
Name of School or College				
Name of the Board/University				
Month and year of passing				
Board/University Roll No.				
Maximum marks/OGPA/OCPA				
Marks/OGPA/OCPA obtained				
Percentage of Marks				
Medium of instruction				
Subjects				

17. (i) Are you an employee of Punjab Agricultural University? Yes No

(ii) If yes, are you under bound to serve the PAU? If so, indicate the period. (Attach certificate as prescribed in Annexure X). _____

DECLARATION AND UNDERTAKING

- I hereby certify that the application form has been filled in by my own hand in ink, and according to the given instructions.
- I hereby affirm that the information given by me in this application form is complete and true to the best of my knowledge and belief and that I have made this application with the consent and approval of my parents/guardian.
- I shall remain in touch with the university for knowing the outcome regarding my admission and shall not hold the university responsible for any postal delay, loss or misplacement of the correspondence made in this regard.

4. I undertake that in the event of my being admitted to one of the constituent colleges of Punjab Agricultural University, I will abide by the disciplinary rules and regulations of the College and the University. I will maintain discipline and proper academic atmosphere in the University. I will not take part in any strike on provoking of other students and will not put the University property in loss by damaging the buildings and offices of the University. I will also not indulge in any acts of indiscipline and misdemeanour, such as taking out processions, holding demonstrations, interfering with the university functioning, threatening the university officers, disturbing the classes in session, assaulting teachers, staff and students, etc. I also affirm that in case I am found violating the above undertaking, I will be liable to be penalized, including expulsion from the University.

ਸਵੈ-ਘੋਸ਼ਣਾ

ਮੈਂ.....ਪੁੱਤਰ/ਪੁੱਤਰੀ ਸ੍ਰੀ.....

ਉਮਰ.....ਸਾਲ.....ਵਾਸੀ.....

ਜ਼ਿਲ੍ਹਾ.....ਪੰਜਾਬ, ਇਹ ਘੋਸ਼ਣਾ ਕਰਦਾ/ਕਰਦੀ ਹਾਂ ਕਿ ਉਪਰੋਕਤ ਅਤੇ ਨੱਥੀ ਦਸਤਾਵੇਜ਼ਾਂ ਵਿੱਚ ਦਿੱਤੀ ਸੂਚਨਾ ਮੇਰੀ ਜਾਣਕਾਰੀ ਅਤੇ ਵਿਸ਼ਵਾਸ ਅਨੁਸਾਰ ਦਰੁਸਤ ਹੈ ਅਤੇ ਇਸ ਵਿੱਚ ਕੁਝ ਵੀ ਛੁਪਾਇਆ ਨਹੀਂ ਗਿਆ । ਮੈਂ ਇਸ ਗੱਲ ਤੋਂ ਜਾਣੂੰ ਹਾਂ ਕਿ ਜੇਕਰ ਮੇਰੇ ਦੁਆਰਾ ਦਿੱਤੀ ਗਈ ਸੂਚਨਾ ਝੂਠੀ ਸਾਬਤ ਹੁੰਦੀ ਹੈ ਤਾਂ ਮੈਂ ਕਾਨੂੰਨ ਅਧੀਨ ਸਜ਼ਾ ਦਾ/ਦੀ ਭਾਗੀਦਾਰ ਹੋਵਾਂਗਾ/ਹੋਵਾਂਗੀ ਅਤੇ ਮੈਨੂੰ ਉਸ ਵਿਦਿਅਕ ਸੰਸਥਾ ਵਿੱਚੋਂ ਸਰਸਰੀ ਤੌਰ ਤੇ ਕੱਢ ਦਿੱਤਾ ਜਾਵੇਗਾ ਜਿਸ ਵਿੱਚ ਮੈਂ ਅਜਿਹੀ ਝੂਠੀ ਸੂਚਨਾ ਦੇ ਆਧਾਰ ਤੇ ਦਾਖਲਾ ਲਿਆ ਹੈ ।

Signature of the Candidate

DECLARATION BY PARENTS/GUARDIAN

I do hereby declare that my son/daughter/ward_____makes this application/undertaking with my knowledge and consent and that in the event of his/her being admitted to the college/university. I/we shall be responsible for his/her good conduct and for the due and prompt payment of college and other fees and to indemnify the College/University in respect of all losses and the expenses resulting from delay and failure to make any such payment or as a result of the particulars given above proving incorrect and also for his/her violating the rules and regulations of the university.

.....
(Signature of Father)

.....
(Signature of Mother)

.....
(Signature of Guardian)

ATTESTATION

Attested by the Head of the Institution being attended or last attended/Gazetted Officer

It is certified that the particulars given in this form bys/d/o are correct to the best of my knowledge and he/she bears a good moral character. He/She has passed/appeared inexamination in the year.....

Place:

Date:

(Signature of Attesting Authority)

SELF DECLARATIONS

RESIDENCE CERTIFICATE

I _____ Father/Mother/Guardian of Miss/Mr. _____ resident of (Full address to be given) _____ do, hereby,

solemnly state and affirm as under :

- 1. That I am a citizen of India.
- 2. That neither the deponent nor the child/ward of the deponent have obtained the benefit of Residence in any other state.

Dated _____

.....
(Signature of Father)

.....
(Signature of Mother)

.....
(Signature of Guardian)

Verification:

Verified that the contents of declaration are true and correct to the best of my knowledge and belief and nothing has been concealed therein.

Dated _____

.....
(Signature of Father)

.....
(Signature of Mother)

.....
(Signature of Guardian)

UNDERTAKING NOT TO INDULGE IN RAGGING

We _____ (Candidate's name), aged _____ Yrs and
Sh. _____ (Father's name) and Ms _____ (Mother's
name) residents of _____ do hereby give an undertaking that
each of us have read the relevant instructions/regulations against ragging, as well as punishments given in the
prospectus and that if the candidate has been found guilty, he/she may be proceeded against.

DEPONENTS

1.....
(Signature of Candidate)

2.....
(Signature of Father)

3.....
(Signature of Mother)

VERIFICATION :

We, the above named deponents, solemnly declare and affirm that the contents of above undertaking
are true to the best of our knowledge and nothing has been concealed therein.

DEPONENTS

1.....
(Signature of Candidate)

2.....
(Signature of Father)

3.....
(Signature of Mother)

OR

ਲਿਖਤੀ ਜ਼ਿੰਮੇਵਾਰੀ ਦਾ ਨਮੂਨਾ

ਅਸੀਂ _____ (ਉਮੀਦਵਾਰ ਦਾ ਨਾਂ), ਉਮਰ _____ ਸਾਲ, ਸ਼੍ਰੀ
_____ (ਪਿਤਾ ਦਾ ਨਾਂ) ਅਤੇ ਸ਼੍ਰੀਮਤੀ _____ (ਮਾਤਾ ਦਾ ਨਾਂ) ਵਸਨੀਕ
_____ ਆਪਣੇ ਵੱਲੋਂ ਲਿਖਤੀ ਜ਼ਿੰਮੇਵਾਰੀ ਲੈਂਦੇ ਹਾਂ ਕਿ ਅਸੀਂ ਰੈਗਿੰਗ ਵਿਰੋਧੀ ਹਦਾਇਤਾਂ/
ਨਿਯਮ ਅਤੇ ਉਲੰਘਣਾ ਕਰਨ ਦੀਆਂ ਸਜ਼ਾਵਾਂ ਜਿਹੜੀਆਂ ਪ੍ਰਾਸਪੈਕਟਸ ਵਿੱਚ ਦਰਜ ਹਨ, ਪੜ੍ਹ ਲਈਆਂ ਹਨ। ਜੇ ਉਮੀਦਵਾਰ ਇਹਨਾਂ ਦੀ
ਉਲੰਘਣਾ ਕਰਨ ਦਾ ਦੋਸ਼ੀ ਪਾਇਆ ਜਾਂਦਾ ਹੈ ਤਾਂ ਉਹ ਸਜ਼ਾ ਦਾ ਭਾਗੀ ਹੋਵੇਗਾ।

ਬਿਆਨਕਰਤਾ

1.
(ਉਮੀਦਵਾਰ ਦੇ ਹਸਤਾਖਰ)

2.....
(ਪਿਤਾ ਦੇ ਹਸਤਾਖਰ)

3.....
(ਮਾਤਾ ਦੇ ਹਸਤਾਖਰ)

ਤਸਦੀਕ :

ਅਸੀਂ ਉਪਰੋਕਤ ਬਿਆਨਕਰਤਾ ਸਵੈ-ਘੋਸ਼ਣਾ ਕਰਦੇ ਹਾਂ ਕਿ ਇਸ ਲਿਖਤੀ ਜ਼ਿੰਮੇਵਾਰੀ ਵਿਚ ਦਰਸਾਏ ਤੱਥ ਸਾਡੀ ਜਾਣਕਾਰੀ
ਅਨੁਸਾਰ ਦਰੁਸਤ ਹਨ ਅਤੇ ਇਨ੍ਹਾਂ ਵਿਚ ਕੁਝ ਵੀ ਛੁਪਾਇਆ ਨਹੀਂ ਗਿਆ ਹੈ।

1.
(ਉਮੀਦਵਾਰ ਦੇ ਹਸਤਾਖਰ)

2.....
(ਪਿਤਾ ਦੇ ਹਸਤਾਖਰ)

3.....
(ਮਾਤਾ ਦੇ ਹਸਤਾਖਰ)

INSTRUCTIONS

1. The Candidate must ensure his/her eligibility (from the prospectus) before filling up the form.
2. The application form must be filled LEGIBLY IN INK IN CANDIDATE'S OWN HANDWRITING and mailed/ submitted in time to reach the Registrar, Punjab Agricultural University, Ludhiana-141 004 by the last date fixed for the receipt of applications.
3. Latest passport size photographs from the same negative duly signed by the candidate and attested by the Principal of recognised school/college or a gazetted officer should be pasted in the space provided on the application form. These photographs should be the same in all respects as the candidate wishes to appear in the Entrance Test/counselling/interview i.e. if he/she wishes to appear with beard, turban etc. photograph should appear so.
4. The application form must be completed and no column should be left blank. Write "not applicable" where no information is required to be given.
5. Column No. 5 must be filled, otherwise the application form will be considered incomplete and rejected.
6. Attested copies of all the certificates from matriculation onwards and other supporting testimonials must be attached with the application form in the first instance. No additional certificate/testimonial shall be entertained subsequently.
7. The application form must be accompanied by the bank draft of appropriate value (wherever applicable) drawn in favour of the Comptroller, PAU, Ludhiana, otherwise the form will be summarily rejected.
8. The Registrar may, at his discretion, cancel the admission of a candidate if at any time, it is found that the candidate obtained the admission by misrepresentation/concealment of facts or the admission was made due to error, oversight etc.
9. INCOMPLETE APPLICATIONS AND THOSE RECEIVED AFTER THE PRESCRIBED DATE WILL NOT BE ENTERTAINED UNDER ANY CIRCUMSTANCES. NO CORRESPONDENCE/ENQUIRY FROM SUCH CANDIDATES SHALL BE ENTERTAINED.

LIST OF ATTESTED CERTIFICATES/TESTIMONIALS TO BE ATTACHED WITH THE APPLICATION FORM

1. Certificate as evidence of belonging to reserve category (ies) (Annexure I to VIII).
2. Annexure C as evidence of an outstanding sportsperson.
3. Residence Certificate.
4. Certificate as an evidence of date of birth.
5. Certificate of degrees, diplomas and qualifying examination(s) passed.
6. Detailed marks certificates of all the parts of the examination(s) which qualifies the candidate for admission.
7. Character Certificate from the Principal of school/college last attended.

Note : Original degrees/provisional degree certificates, diplomas and all other certificates etc. should be produced at the time of counselling/interview.