राष्ट्रियसंस्कृतसंस्थानम्

(समविश्वविद्यालय:) राष्ट्रियमूल्याङ्कन-प्रत्यायन-परिषदा 'ए' श्रेण्यां प्रत्यायितम् नवदेहली

RASHTRIYA SANSKRIT SANSTHAN

(Deemed University)
Accredited with 'A' Grade by NAAC
New Delhi

पाठ्यक्रमः

SYLLABUS

उत्तरमध्यमा/प्राक्शास्त्री (सीनियर सेकेण्डरी) Uttaramadhyama/Prak-Shastri (Sr. Secondary)



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पाठ्यक्रमः

SYLLABUS

उत्तरमध्यमा/प्राक्शास्त्री (सीनियर सेकेण्डरी) Uttaramadhyama/Prak-Shastri (Sr. Sec.)

अनुक्रमणिका

		पृष्ठसंख्या
۱.	उत्तरमध्यमा/प्राक्शास्त्रिपाठ्यक्रमः — परीक्षापत्रविवरणम्	5
2.	उत्तरमध्यमा/प्राक्शास्त्री –	
	प्रथमवर्षम्	9-25
	द्वितीयवर्षम्	26-59

उत्तरमध्यमा / प्राक्शास्त्रीपाठ्यक्रमः

परीक्षापत्रविवरणम्

उत्तरमध्यमा / प्राक्शास्त्रिपाठ्यक्रमे द्वयोः वर्षयोः प्रतिवर्षम् अधोलिखितानि पत्राणि सन्ति-

उत्तरमध्यमा / प्राक्शास्त्रिपरीक्षा (प्रथमवर्षम्) -

पत्राणि	विषया:	अंका:
1.	व्याकरणम्	100
2.	साहित्यम्	100
3.	आंग्लभाषा	100
4.	हिन्दी/प्रान्तीयभाषाः	100
5.	अर्थशास्त्रम्/इतिहास:/राजनीतिशास्त्रम्/समाजशास्त्रम्/ जीवविज्ञानम्/गणितम्/भूगोल:	100
6.	वेद:/व्याकरणम्/साहित्यम्/ज्यौतिषम्/दर्शनम्/जैनदर्शनम्/बौद्धदर्शनम्	100
7.	संगणकविज्ञानम्	100

उत्तरमध्यमा / प्राक्शास्त्रिपरीक्षा (द्वितीयवर्षम्) -

पत्राणि	विषया:	अंका:
1.	व्याकरणम्	100
2.	साहित्यम्	100
3.	आंग्लभाषा	100
4.	हिन्दी/प्रान्तीयभाषा:	100
5.	अर्थशास्त्रम्/इतिहास:/राजनीतिशास्त्रम्/समाजशास्त्रम्/ जीवविज्ञानम्/गणितम्/भूगोल:	100
6.	वेद:/व्याकरणम्/साहित्यम्/ज्यौतिषम्/दर्शनम्/जैनदर्शनम्/बौद्धदर्शनम्	100
7.	संगणकविज्ञानम्	100

पाठ्यक्रमः

Syllabus

उत्तरमध्यमा/प्राक्शास्त्री (सीनियर सेकेण्डरी) Uttaramadhyama/Prak-Shastri (Sr. Sec.)

प्राक्शास्त्री/उत्तरमध्यमापाठ्यक्रमः प्रथमवर्षम्

प्रथमं पत्रम् - व्याकरणम् 100 अभागः - लघुसिद्धान्तकौमुदी आदितः पञ्चसन्ध्यन्तं यावत् 40 अङ्काः बभागः - रचनानुवादः शब्दरूपाणि धातुरूपाणि च (अधोनिर्दिष्टाः) 60 अङ्काः 1) अमरकोश: स्वर्गवर्ग: 10 अङ्काः 2) शब्दरूपाणां परिचय: 20 अङ्काः पुंलिङ्गकाः शब्दाः-राम, हरि, भानु, पितृ, सिख, पित, गो स्त्रीलिङ्गकाः शब्दाः - रमा, मित, नदी, मातृ, नपुंसकलिङ्गकाः शब्दाः - ज्ञान, वारि, मधु, जगत्, कर्मन्, मनस्, सर्वनामशब्दा: - युष्पद्, अस्मद्, इदम्, अदस्, तद्, एतद् 3) धातुरूपाणां परिचय: (दशसु लकारेषु) 20 अङ्काः परस्मैपदिधातव: - भू, लिख, गम्, स्था, पठ्, पा-पाने, अस्, इष् आत्मनेपादिधातव: - एध्, सह, लभ् उभयपदिधातव: - कृ, दा 4) वाच्यपरिवर्तनम् 05 अङ्काः 5) अनुवाद:-हिन्दीत:/आङ्ग्लत: संस्कृतम्, संस्कृतत: हिन्दी/आङ्ग्लम् 05 अङ्का: (अधीतशब्दरूपधातुरूपत: अनुवादवाक्यानि) द्वितीयं पत्रम् - साहित्यम् 100 रघुवंशम्, 1-2 सर्गौ

तृतीयं पत्रम् - आंग्लम् (English)

100

Section A: Comprehension

10 marks.

A Passage from the text followed by 5 questions each carrying 2 marks (5×2)

Section B : Comosition

10 Marks.

Report, Writing or Composition or letter writing

Section C : Grammar

40 marks.

- (i) Parts of Speech, types of sentences, Tenses, Clauses, Modals. 20 Marks 10 question out of 15 each qustion carring 2 marks (10×2)
- (ii) Editing Tasks : Punctuation, Correction of Spellings,
 Grammatical errors. 10 Marks
 5 questions outs, each carring 2 marks (5×2)
- (iii) Re-ordering of sentences 10 Marks
 One set out of 2 sets

Section D : Text Books

30 marks.

- (i) **Hornbill** 20 Marks
 - (a) Five out of eight short answer questions each carring 4 marks
- (ii) Snapshots

10 Marks

One out of three long answer questions (essay type answer with 100 to 150 words)

Section E: Essay Type Question on clean India (swacha Bharat)

10 marks.

One out of three long answer questions (essay type answer with 100 to 150 words)

Prescribed Books:

- (i) Hornbill-published by N.C.E.R.T. 2008, prescribed for Central Schools in Class XI.
- (ii) Snapshots-published by N.C.E.R.T. 2008, prescribed for Central Schools in Class XI.

चतुर्थं प	ग्रम् −	हिन्दी ⁄ प्रान्तीय भाषा			100
	(I)	हिन्दी			
		(अ) हिन्दी (केंद्रिक)			
		अथवा			
		(ब) हिन्दी (ऐच्छिक)			
	(अ)	हिन्दी (केंद्रिक)			100
	(क)	पाठ्य पुस्तक- आरोह (भाग-1)		40	
		1) प्रेमचन्द			
		पूरक पुस्तक- वितान (भाग-1)		20	
	(ख)	रचनात्मक लेखन (कामकाजी हिन्दी और रचनात्म	ाक लेखन)	10	
		(1) निबन्ध			
		(2) कार्यालयीय पत्र			
	अभिव्य	क्ति और माध्यम पुस्तक के आधार पर प्रश्न–		10	
	(i) सम	ाचार लेखन/आलेख		5	
	(ii) जी	वन संदर्भों से जुड़ी घटनाओं और स्थितियों पर फीचर	लेखन	5	
	(ग)	स्वच्छ भारत समाचार लेखन/आलेख		20	
	भागोन	पुस्तक के आधार पर प्रश्न		40	
	काव्य			40	
		दो काव्यांशों की व्याख्या	10		
	, ,	काव्य के सौन्दर्य बोध पर एक प्रश्न	5		
) कविता की विषयवस्तु पर आधारित लघु उत्तरात्मक ।			
			X(1 5	22	
	गद्यभाग			20	
	` /	गद्याशों की व्याख्या	10		
		। पर वर्णनात्मक प्रश्न	5		
	(111) ग	द्य की विषय वस्तु पर आधारित लघु उत्तरात्मक प्रश्न	5		

वितान, भाग-1		20
पाठों की विषयवस्तु पर आधारित लघु उत्तरात्मक प्रश्न	10	
विषयवस्तु पर आधारित निबन्धात्मक प्रश्न	10	
निर्धारित पुस्तकें-		
(i) आरोह, भाग-1, एन.सी.ई.आर.टी. द्वारा प्रकाशित		
(ii) वितान, भाग-1, एन.सी.ई.आर.टी. द्वारा प्रकाशित		
(iii) अभिव्यक्ति और माध्यम		
(III) आमध्याका आर माध्यम		
(ब) हिन्दी (ऐच्छिक)		100
(क) अपठित बोध (काव्यांश एवं गद्यांश बोध) 5+5		10
(i) काव्यांश—काव्यांश पर आधारित पाँच लघु उत्तरात्मक प्रश	Ŧ 5	
(ii) गद्यांश— गद्यांश पर आधारित प्रयोग, रचनान्तरण, शीर्षक आदि लघु उत्तरात्मक प्रश्न	5	
(ख) रचनात्मक तथा व्यावहारिक लेखन		25
(i) निबन्ध	10	
(ii) कार्यालयीय पत्र	8	
(iii) व्यावहारिक लेखन- प्रतिवेदन/ कार्यसूची इत्यादि	7	
(ग) अन्तरा, भाग-1		25
काव्य भाग–		
(i) सप्रसंग व्याख्या	10	
(ii) कविताओं के काव्य पर दो प्रश्न	10	
(iii) काव्य सौन्दर्य पर प्रश्न	5	
गद्यभाग–		25
(i) सप्रसंग व्याख्या	8	
(ii) पाठों की विषयवस्तु पर आधारित प्रश्न	7	
(iii) किसी एक लेखक/किव का साहित्यिक परिचय	10	

(घ) अन्तराल, भाग-1	15					
(i) विषयवस्तु पर आधारित प्रश्न	7					
(ii) विविध विधाओं पर आधारित बोधात्मक प्रश्न	8					
निर्धारित पुस्तकें-						
(i) अन्तरा भाग−1, एन.सी.ई.आर.टी. द्वारा प्रकाशित						
(ii) अन्तराल भाग-1, एन.सी.ई.आर.टी. द्वारा प्रकाशित						
(iii) अभिव्यक्ति और माध्यम, एन.सी.ई.आर.टी. द्वारा प्रकाशित						
(2) प्रान्तीय भाषा						
बंगला						
	100					
(兩) Grammar	100					
(i) Simple, Complex and compound sentences, Transform	ation					
(ii) Correction of words						
(iii) Karak						
(iv) Sadhu O' Chalit Bhasha						
(v) Proverbs and idioms						
(평) Unseen passages	10					
(η) Composition	20					
Effective writing skill						
(i) Expansion of ideas						
(ii) Essay/paragraph						
(된) Text-Book						
1. उच्चमाध्यमिकपाठसंचयन	30					
(गद्य, पद्य एवं नाटक, 2005)						
2. कर्णकुन्तीसंवाद- रवीन्द्र नाथ टैगोर	15					
उडिया / Uriya	100					
ক. Applied Grammer	20					
Transformation of sentences, antonyms, synonyms, idioms, prov						
correction of errots	•					
- उत्तरमध्यमा/प्राक्शास्त्री (सीनियर सेकेण्डरी)	13					

ख.	Effective Writing Skill 20			
	(i)	Report-Wri	ting for newspapers	
	(ii)	Eassay/art	icle/speech	
ग.	. Unseen passages			10
घ.	Text-	Books		50
	(i) I	Novel	Chaman Athagunta-	Fakir Mohan Senapati, Cuttack
	(ii) l	Poetry	Chilika-	Radhanath Ray, Cuttuck
	(iii) ((One act play)	Mantri Asibe	Ramchandra Misra Cuttuck
नेपाली	/ Ne	pali		100
A.	Gram	nmer		15
	Parya	nyevachi, Vipar	itarthak, anekarthaka, S	aar Shabda, Sabda-Shuddhi Vimarsha
B.	Unse	en passages		10
C.	Comp	position-		
	(i)	Patra-rachn	a-Vyaktigata, Vyaparik	x, Datari, Smarak Patra 15
	(ii)	Nibandha ra		
		•	amik Nepali Vyakaran	
D.	Text-books 60			
	(i)	_	· •	akashan, Gangtok, Sikkim
	(ii)			Prakashan, Gangtok, Sikkim
	(iii)		an-Mahakavi Laxmi Pr	
	(iv)	Nepali Ekai	nki Sangraha, Kiksha V	ibhag, Sikkim Sarkar
डोगरी	/ Dog	gri		100
(i)	व्याकर	रण		20
(ii)	अपठि	त अंश		10
(iii)	रचना			20
(iv)	पाठ्यप्	पुस्तकें		
	(i)	सांझ प्याली		
	(ii)	सरपंच		50
14			उत्तर	पमध्यमा/प्राक्शास्त्री (सीनियर सेकेण्डरी)

	/ 3.5			
		(alayalam)	100	
I.		ed Grammer	20	
	Parts o	of speech, idioms & proverbs,		
		ction and transformation of sentences, Vocabulary-building, equal ple terms in economic, administrative, scientific discourses and		
II.	Compo	osition	20	
(i)	Letter'	Writing.		
		ess Letters, infromal, application for civic amenities, letters tation for a job.	to the editors,	
(ii)	Paragra	aph Writing		
(iii)	Unsee	n Passage		
(iv)	Prose	and Poetry	60	
Text-l	ooks			
(i)	Malay	alam, Govt. of Kerala, SCERT, 2005		
(ii)	Vyakti	-vivekam by Akavoor Narayanan		
तमिल	/ Tam	il	100	
(1)	पोधु तम	गीजा (Podhu Tamizaha (Class XI 2004 Ed.)		
(2)	Siruka	thai Selvam (2004) pt I (Nindetark XI)		
गुजरार्त	t ∕ Guj	jarati	100	
A.	Unsee	n passage	10	
B.	Compo	osition	20	
	(i)	Report Writing for Newspapers		
	(ii)	Precis-Writing		
	(iii)	Essay		
C.	Gramn	mar	20	
		formation of sentences, formation of words (Samanarthi, etion of Sentences, idioms, proverbs, Punctuation.	Virodharthi)	
D.	Text-Books 5			
	Gujara	nti (Dwitiya Bhasha) Std XI		
	Gujrat	Rajya Sala Pathya Pustak Mandal, Gujrat		

15

उत्तरमध्यमा/प्राक्शास्त्री (सीनियर सेकेण्डरी)

मराठी 🗸	/ Mara	nthi	100
A. Grammer			
	(i)	Transformation of sentences-moods, voices, tenses	
	(ii)	Transformation of words	
	(iii)	Filling in the blanks with appropriate from of words.	
B.	Unseen	n passages	
C.	Compo	osition Essay	
D.	Literatu	ıre	
	Text-bo	ooks	
	(i)	Yuvak Bharati for Class XI	
	(ii)	Kounteya - V.V. Shrivadekar	
मणिपुरी	/ Ma	nipuri	100
A.	Applied Grammer		15
	Root and its types, Affixes, Syllable		
B.	Compo	sition	25
	(i)	Essay, application,	
	(ii)	Precis writing	
C.	Unseen	n Passage	10
D.	Prose-I	Poety	
Lesson	ı (Poetr	(\mathbf{y})	
	(1)	Ahing-gi-chekla Tamma	30
	(2)	Ningkhaire	
	(3)	Smriti	
	(4)	Lei Langba	
	(5)	Jagoi Jogoi	
Selecte	ed Piece	es. (Prose)	
	(1)	Kh. Chaoba-gi-Kavi	20
	(2)	Kala Amasung Punshi	
	(3)	Yatri-ka-Thengnaruba	

	(4)	Ning Shinglarga lba				
	(5)	Kaling a lan loibada Ashoka				
Presc	ribed B	ooks				
	(i)	Manipuri Wareng-Cultural Forum, Manipur				
	(ii)	Manipuri Sheireng-Manipur Sahitya Parishad, Imphal				
	(iii)	Meetei Lonmit (Part II) by Dr. M.S. Ningomba				
	(iv)	Manipuri Grammer-Board of Sec. Education, Manipur				
कन्नड़	(Kan	nada)	100			
	Text	book : Sahitya Nandana				
पंचमप	ात्रम्–अः	र्थशास्त्रम्/इतिहासः/राजनीतिशास्त्रम्/समाजशास्त्रम्/जीवविज्ञानम्/गणितम्/१	मूगोल:			
अर्थश	ास्त्रम् /	Economics	100			
A.	Stati	stics in Economics	50			
1.	Econ	nomics-meaning-scope and importance of Statistics in Economics				
2.	Colle	ection, organisation and presutation of Data-sources, methods,				
	censu	us of India, National Sample Survey Organisation, Variables, Frequence	су			
	Distr	Distribution, Presentation-Tabular, Diagramatic.				
3.	Stati	stical Tools and Interpretation.				
	(i)	Mean, median and mode.				
	(ii)	Measures of Dispersion				
	(iii)	Correlation				
	(iv)	Introduction to Index numbers meaning, types, uses, Inflation				
4.	Deve	eloping Projects				
	(i)	Demographic structure				
	(ii)	Consumer awareness				
	(iii)	Changing prices				
	(iv)	Co-operative insitutions				
B.	India	an Economic Development	50			
6. Economic Reforms since		nomic Reforms since 91				
	libera	alization, globalisation and privatisation, LPG policies.				
उत्तरमध	ध्यमा/प्राव	क्शास्त्री (सीनियर सेकेण्डरी)	17			

7. Current Challenges-

Poverty, Rural development, Human Capital Formation, Employment, infrastructure, Policies, Economic Development, effects of Economic Development on Resources and Environment.

8. Development Experiences of India

- (i) Indian and Pakistan
- (ii) India and China
- (iii) Development indications

Ref. Books

1. अर्थशास्त्र में सांख्यिकी (हिंदी)

Statistics in Economics (N.C.E.R.T.)

2. भारतीय अर्थव्यवस्था का विकास (हिंदी)

Development of Economic policies in India (N.C.E.R.T.)

इतिह	ासः / 1	History	100
1.	Intro	duction to World History	15
	A.	Early Socities,	
	В.	Empires across three continents, Central Islamic lands, Nomadic Empires	25
	C.	Changing Cultural Traditions, Confrontation	25
	D.	Paths to Modernization-Industrial Revolution, Displacement of indegenous people, Paths to modernization	25
		Map-Work based on above units	10
विश्व	इतिहास	के कुछ विषय (N.C.E.R.T.) (हिंदी)	
The	mes in W	Vorld History (N.C.E.R.T.)	
राजन	ीतिशास्त्र	म् / Political Science	100
Part	A Indi	an Constitution at works.	50
		ing of Constitution, Fundamental Rights, System of representa ocracy, Executive in a parliamentary system, legislature, Judiciary, Fede	

Local Government, Political Philosophy underlying constitution.

Part B Political Theory

50

Introduction, Freedom, Equality, Social Justice, Rights, Citizenship, Nationalism, Secularism, Peace Development.

भारत का संविधान-सिद्धान्त और व्यवस्था

(N.C.E.R.T.)

Indian Constitution at work

(N.C.E.R.T.)

राजनीति के सिद्धान्त (Political Theory)

संदर्भ ग्रंथ-

भारतीय संविधान का कार्यात्मक रूप एवं राजनीतिक लेखन – श्री बी.बी. चौधरी

समाजशास्त्रम् / Sociology

100

A. Introducing Sociology

50

Society, Sociology and relationship with other sciences, Basic concepts, social Institutions, Culture and Society, Practical Sociology: Methods and Techniques

B. Understanding Society

50

Structure, Process, Stratification, Social Change, Environment and Society, Western Social Thinkers, Indian Sociologists-Karl Marx, Emile Durkheim, Max Weber, G.S. Ghurye, D.P. Mukherjee, A.R. Desai, M.N. Srinivas

समाजशास्त्र परिचय (N.C.E.R.T.)

Introducing Sociology (N.C.E.R.T.)

समाज का बोध (N.C.E.R.T.)

Understanding Society (N.C.E.R.T.)

जीवविज्ञानम् / Biology

100

- (i) Diversity in Living World
- (ii) Structural Organization in animals and plants
- (iii) Cell-Structure-and function
- (iv) Plant Physiology-

Water, food, nutrients, gases, Respiration, Photosynthesis, growth development.

(v) Human Physiology

Digestion, absorption, Breathing, respiration, Body Fluids and cirulations excretory products and elimination, Locomotion and movement, control and co-ordination.

Prescribed Books

	Biology Part I (N.C.E.R.T.)	
गणित	म् / Mathematics	100
I.	Sets and Functions	25
	Empty set, Finite and Infinite sets, Subsets, Power set, Universal set. Venn ounion, intersection, difference, complement of a set	diagrams,
(i)	Relations and Functions	
	Pictiorial diagrams, domain, ranges, Sum, difference, product and que functions	otient of
(ii)	Trigonometric Functions	
	Measuring angles, conversion from one measure to another, Defit trigonometric functions with the helps of unit circle identities.	nition of
II	Algebra	35
	Principal of Mathematical Induction, Complex Numbers and Quadratic E Linear Inequalities, Permutation and Combinatioms, Binomial Theorem, S and Series	
Ш	Co-ordinate geometry	15
	Straight Lines, Conic Sections, Introduction to Three-dimensional Geor	netry
IV	Calculus	5
	Limits and derivatives	
\mathbf{V}	Mathematical Reasoning	10
VI	Statistics and Probability	10
	गणित भाग (N.C.E.R.T.)	
	Mathematics Part I (N.C.E.R.T.)	
भूगोल	/ Geography	100
A.	Fundamentals of Physical Geography, Geography as a discipline, the earth, landforms, climate, water (oceans), life on earth.	40
B.	India-Physical Environment Physiography, Climate, Vegetation, Soil, Natural Hazards, Disasters.	40
C.	Maps, Topographical & Waeather-maps Latitude, Longitude, time, Map-projection, Uses of weather charts, weather instruments.	20
20	उत्तरमध्यमा/प्राक्शास्त्री (सीनियर र	पेकेण्डरी)

जीवविज्ञान 1 (N.C.E.R.T.)

Prescribed Books

भौतिक भूगोल के मूल सिद्धान्त (N.C.E.R.T.)
Fundamentals of Physical Geography (N.C.E.R.T.)
भारत का भौतिक पर्यावरण (हिन्दी) (N.C.E.R.T.)
Indian Physical Environment (N.C.E.R.T.)
भूगोल में प्रयोगात्मक कार्य (N.C.E.R.T.)
Practical Work in Geography (N.C.E.R.T.)

षष्ठं	पत्रम्-	वेदः/व्याकरणम्/साहित्यम्/ज्यौतिषम्/दर्शनम्/जैनदर्शनम्/बौ	द्धदर्शनम्	100
वेद:				100
	(अ)	शुक्लयजुर्वेदे रुद्राष्टाऽध्यायी (प्रथमाध्यायत: चतुर्थाध्यायपर्यन्तम्)	70	
		सस्वरमन्त्रकण्ठस्थीकरणम्		
	(ৰ)	छन्दसां सामान्यपरिचय: (गायत्री, उष्णिक्, अनुष्टुप्, बृहती, पिङ्क्त, जगती छन्दांसि)	30	
व्याव	रुणम्			100
	वैयाव	त्रणसिद्धान्तकौमुदी− आदित: पञ्चसन्ध्यन्तो भाग:		
	अङ्का	वभाजनम्–		
	(1)	संज्ञापरिभाषाप्रकरणे	30	
	(2)	अच्सन्धिः	30	
	(3)	हल्सिन्धः, विसर्गसिन्धः, स्वादिसिन्धश्च	40	
साहि	त्यम्			100
	वृत्तरत	नाकर: प्रथमाध्याय: 25 छन्दांसि		
	(1)	मात्रावृत्तम्		
	(2)	वर्णवृत्ते समवृत्तम्		
		(अ) अनुष्टुब् - विद्युन्माला, प्रमाणिका		
		(आ) त्रिष्टुब् - इन्द्रवज्रा, उपेन्द्रवज्रा, उपजाति:, दोधकम्, रथोद्धता, स्वागत, शालिनी		
		(इ) जगती – वंशस्थम्, तोटकम्, द्रुतविलम्बितम्, भुजङ्गप्रयात	ाम्	
		(ई) अतिजगती – प्रहर्षिणी, मञ्जुभाषिणी		
		(उ) शक्वरी - वसन्ततिलका		
		(ऊ) अतिशक्वरी – मालिनी		
		(ऋ) अत्यष्टि - शिखरिणी, पृथ्वी, मन्दाक्रान्ता		
		(ॠ) अतिधृति - शार्दूलविक्रीडितम्		

(लृ) प्रकृति - सृग्धरा वर्णवृत्ते अर्धसमवृत्तम्, ललिता पुष्पिताग्रा च

ज्योरि	तेषम्			100
	(1)	रेखागणितम्, 1-2 अध्यायौ	50	
	(2)	जन्मपत्रदीपक:	40	
	(3)	पञ्चाङ्गपरिचय:	10	
दर्शन		ङ्ग्रह: (पदकृत्यहित:)		100
जैनद	र्शनम् तत्वाथ	र्रसूत्रम्, उमास्वामिविरचितम्		100
बौद्ध	दर्शनम्			100
सप्तग		ङ्ग्रहः, आचार्यनागार्जुनविरचितः - संगणकविज्ञानम् (Computer Science)		100
Unit	Ι			
1.	Com	puter Appreciation : What is Computer?	3 se	ssions
	Char	acteristics of Computers Input Output storage units C	PLL computers	vstem

Advantages and Disadvantages of using computers.

Computer Organization

20 sessions

2.1 Central Processing Unit

Control Unit, Arithmetic Unit, Instruction Set, Register, Processor and Processor Speed.

2.2 Memory

2.

Main memory: Storage Evaluation Criteria, Memory Organization, capacity, RAM, Read only Memories, Secondary Storage Devices, Magnetic Disks, Floppy and Hard Disks, Optical Disks, CD-ROM, Mass Storage Devices.

2.3 Input Devices

Keyboard, Mouse, trackball, joystick, Scanner OMR, Bar-code reader, MICR Digitizer, Card Reader, Voice Recognition, web cam, video cameras and other input devices.

2.4 Output Devices

Monitors, Printers-Dot matrix, inkject, laser, Plotters, Computer, Output Micro-Film (COM) Multimedia Projector, speech synthesizer; dumb smart and intelligent terminal.

2.5 Multimedia:

What is Multimedia, Text, Graphics, Animation, Audio, Images, Video: Multimedia Application in Education, Entertainment, Marketing.

2.6 Computer Software

Relationship between Hardware and Software; System Software, Application Software, compiler, names of some high level languages.

3. Operating Systems

10 sessions

3.1 Disk Operating Systems

Simple DOS Commands, Simple File Operations, Directory Related Commands.

3.2 Microsoft Window

An overview of Window, Basic Windows elements, File management through Windows. Using essential accessories: Systems tools, Disk cleanup, Disk defragmenter, Entertainment, Games, Calculator, Imaging-Fax, Notepad, Paint, Word pad.

3.3 LINUX

Concept of multi user operating systems. Basics of Linux OS. An overview of Linux.

Revision 2 Sessions

Unit I Test 1 Session

Unit II

4. Data Representation

10 Sessions

Binary, Octal, Decimal, Hexa Decimal

Binary Arithmetic (Simple methods for add, subtract (2's Complement).

Binary number system, Binary to Decimal Conversion, Decimal to Binary Conversion, Binary Coded Decimal (BCD Code, ASCII Code.

5. Concept of Files

5 sessions

Types of Files, file organization; sequential, relative and indexed, Modes of processing; batch, online and real-time.

6. Operation of files:

3 sessions

Input, output and I/O; processing a file, multiple handling file updations, sequential file updation, random file update.

7. Principles and techniques of programming

20 sessions

7.1 Introduction to programming:

Program definition, life cycle, characteristics of a good program, Program Design (flowcharts, pseudo codes, Dry Run, Techniques to prepare test data)

7.2 Algorithms for Problem Solving

Exchanging values of two variables, Summation of a set of numbers, Subtraction of two numbers, Product of two numbers, Sum of 10 numbers, Greatest of three numbers, Product of first ten odd numbers, Sum of first 20 even numbers, Find square root of a number, factorial computation, Reverse order of elements of any array, Find largest number in an array.

7.3 Programming paradigms:

Unstructured programming, structured programming, procedural programming, modular programming, program design, top down up design, program documentation.

Revision 2 sessions

Unit II Test 1 session

Revision Remaining sessions

द्वितीयवर्षम्

प्रथमं पत्रम् - व्याकरणम्

100

अ-भागः लघुसिद्धान्तकौमुद्यां कारकसमासप्रकरणे

30 अङ्काः

कृदन्तप्रकरणे-कृत्यप्रत्ययाः, ण्वुल्, तृच्, अण्, क, क्त- क्तवतु, शतृ-शानच्, 20 अङ्काः तुमन्, क्त्वा, लघुसिद्धान्तकौमुदीरीत्या

ब-भागः रचनानुवादः

50 अङ्काः

1) शब्दरूपाणां परिचय:

15 अङ्काः

पुंलिङ्गकाः शब्दाः - राजन्, विद्वस्, गोमत्, गुणिन्, भगवत्, मघवन् स्त्रीलिङ्गकाः शब्दाः - वाच्, दिश्, गिर्, उपानह्, अप्, श्री, स्त्री नपुंसकलिङ्गकाः शब्दाः - दिध, मधु, अस्थि, आदि, ददत् सर्वनामशब्दाः - सर्वेपि सर्वनामशब्दाः

2) धातुरूपाणां परिचय: (दशसु लकारेषु)

20 अङ्काः

अदादि - अद्, इङ्-अध्ययने

जुहोत्यादि - हु, भी

दिवादि - दिव्, नृत्

स्वादि - सु, चि

तुदादि - तुद्

रुधादि - रुध, भिद्

तनादि - तनु

क्र्यादि - क्री, ग्रह

चुरादि - चुर्, गण्

3) निबन्धलेखनम्

10 अङ्काः

यात्रावर्णनम्, संस्थावर्णनम्, विद्यामहिमा, परोपकार:

4) अनुवाद: आङ्ग्लत: संस्कृतम्, संस्कृतत: हिन्दी/आङ्ग्लम्

05 अङ्का:

(अधीतशब्दरूपधातुरूपत: अनुवादवाक्यानि)

द्वितीयं पत्रम्- साहित्यम्

100

(1) किरातार्जुनीयम् - प्रथम-सर्गः

40

(2) नीतिशतकम् (भर्तृहरिविरचितम्)

60

तृतीयं पत्रम्-आंग्लम् (English)

100

Section A: Comprehension

10 marks

A Passage from the text, followed by 5 questions each carrying 2 marks (5×2)

Section B: Advanced writing skills

10 marks

A Passage from the text followed by 5 questions each carring one out of three question (composition or writing report. 2 mark or writing report) between 150 to 200 wards

Section C: Grammar

40 Marks

Changing the voice and Narration, combining sentences. Articles, Prepositions 20 questions out of 25 each questions carring 2 marks (20×20)

Section D : Text Books

30 Marks

(a) Flamingo

20 Marks

i) Five out of eight short answer questions (Each carring 4 marks)

(5×4+20 Marks)

(b) Supplementary Reader: Vistas

10 Marks

One out of three long answer questions. (essasy type with 100 to 150 words)

Section E: Essay type question on importance of Yoga

10 Marks

One out of three long answer questions. (essasy type with 100 to 150 words)

Prescribed Books:

- i) Flamingo, NCERT, 2008 prescribed for Central School in Class XII
- ii) Vistas, NCERT, 2008 prescribed for Central School in Class XII.

चतुर्थं	चतुर्थं पत्रम् – हिन्दी / प्रान्तीय भाषा				
(I)	हिन्दी-				
	(अ)	हिन्दी (केंद्रिक)			
		अथवा			
	(ब)	हिन्दी (ऐच्छिक)			
(अ)	हिन्दी	(केंद्रिक)			
(क)	रचनात	मक लेखन एवं जनसंचार माध्यम	४० अङ्काः		
रचनात	नक लेख	व्रन–			
	(1)	निबन्ध	10		
	(2)	कार्यालयीय पत्र			
जनसंच	ार माध्य	यम—			
	निम्नलि	खित विधाओं पर दो प्रश्न–			
	(I)	रिपोर्ट/आलेख	05		
	(II)	फीचर लेखन (जीवन संदर्भो से जुड़ी घटनाओं और स्थितियों पर फीचर लेखन)	05		
	(III)	योग विषय पर रिपोर्ट आलेख	20		
(ख)	आरोह	, भाग-2	20 अङ्काः		
काव्य	भाग				
	(I)	दो काव्याशों की व्याख्या	10		
	(II)	काव्य के सौन्दर्यबोध पर एक प्रश्न	05		
	(III)	कविता की विषयवस्तु पर आधारित लघु उत्तरात्मक प्रश्न	05		
गद्य भ	ाग		20 अङ्काः		
	(I)	दो गद्यांशों की व्याख्या	10		
	(II)	गद्य पर वर्णनात्मक प्रश्न	05		
	(III)	गद्य की विषयवस्तु पर आधारित लघु उत्तरात्मक प्रश्न	05		
28		उत्तरमध्यमा/प्राक्शास्त्री (सीनियर	सेकेण्डरी)		

(ग)	वितान,	भाग-2	20	अङ्काः
	(I)	पाठों की विषयवस्तु पर आधारित लघु उत्तरात्मक प्रश्न	10	
	(II)	विषय वस्तु पर आधारित निबन्धात्मक प्रश्न	10	
निर्धारि	त पुस्तवें	ন :		
	(I)	आरोह, भाग–2 एन.सी.ई.आर.टी. द्वारा प्रकाशित		
	(II)	वितान, भाग—2 एन.सी.ई.आर.टी. द्वारा प्रकाशित		
	(III)	अभिव्यक्ति और माध्यम, एन.सी.ई.आर.टी. द्वारा प्रकाशित		
(ब)	हिन्दी	(ऐच्छिक)		100
(क)	अपठित	बोध (काव्यांश एवं गद्यांश बोध) 10+10		20
	(I)	काव्यांश—काव्यांश पर आधारित रचनात्मक, शीर्षक प्रयोग आदि पर लघु उत्तरात्मक प्रश्न	10	
	(II)	गद्यांश-गद्यांश पर आधारित लघु उत्तरात्मक प्रश्न	10	
(ख)	रचनात्म	क तथा व्यावहारिक लेखन		20
	(I)	निबन्ध	10	
	(II)	कार्यालयीय पत्र	05	
	(III)	अभिव्यक्ति और माध्यम के आधार पर व्यावहारिक लेखन पर प्रश्न	05	
(刊)	अन्तरा	भाग-2		25
काव्य	भाग–			
	(I)	सप्रसंग व्याख्या	10	
	(II)	कविताओं के कथ्य पर दो प्रश्न	10	
	(III)	काव्य सौन्दर्य पर प्रश्न	05	
गद्य भा	ग–			20
	(I)	सप्रसंग व्याख्या	05	
	(II)	पाठों की विषय वस्तु पर आधारित प्रश्न	05	
	(III)	किसी एक लेखन/किव का साहित्यिक परिचय	10	
उत्तरमध्य	 गमा/प्राक् श	शास्त्री (सीनियर सेकेण्डरी)		29

(घ)	अन्तराल	न भाग–2			15
	(I)	विषय वस्तु पर आधारित प्रश्न		07	
	(II)	विविध विषय पर आधारित बोधात्मक प्रश्न		08	
निर्धारिक	त पुस्तवें	- - -			
	(1)	अन्तरा भाग–2, एन.सी.ई.आर.टी. द्वारा प्रकाशित			
	(2)	अन्तराल भाग–2, एन.सी.ई.आर.टी. द्वारा प्रकाशित			
	(3)	अभिव्यक्ति और माध्यम, एन.सी.ई.आर.टी. द्वारा प्रकाशित			
(2) प्र	गन्तीय भ	गाषा			
बंगला	/ (Ben	gali)			100
Section	nA:				
Gramm	nar			30	
1.	Phono	logy (Definition with five examples)	10		
	Samibl	naban, Spinihiti, Sarasangati, Swarabhkti, Abhisruti			
2.	Rheto	ric (Definition and Identification)	10		
	Anupra	ash, Slesh, Yamka, Upama, Shamashakti			
3.	Provei	rbs and Idioms	10		
Section	n B : Su	mmary Writing		10	
Section	n C : Co	omposition		10	
	Person	al Letters (Friends and Parents)			
Section	n D : Li	terature		50	
Text B	ook : U	ccha Madhyamik Path Sanchayan (Prose) Edition-	2005		
Lesson	ns to be	studied:			
1.	Prose			20	
	1.	Biral			
	2.	Tota Kahini-by Rabindra Nath Tagore			
	3.	Shubh Utsav			
	Uccha	Madhyamik Path Sanchayan (Poetry & Drama)		15	
	Edition	n-2005			

2.	Poems	s to be studied:		
	(i)	Attya Bilap		
	(ii)	Ora Kaj Kare		
	(iii)	Atharo Bacchar Bayesh		
3.	Novel	: Srikanta (Part I)- by Sarat Chandra Chatterjee	15	
उड़िया	/ (Or i	iya)		100
		Section A		
Readir	ng Skil	ls	10	
	Unsee	n Passage for Reading/Comprehension followed by 4 to 5 qu	estions	
	1 mark	may be allocated for suitable heading.		
Section	n B : W	riting Skills	25	
	1. E	Essay on Current topics (Social and Cultural issues)		
	(250 to 300 words)	10	
	2. L	etter to the Editor of Newspaper	08	
	3. F	Factual description of place or object	07	
Section	n C : Aj	pplied Grammar, Prosody and Rhetories	15	
(i)	Applie	d Grammar		
	1. T	Pransformation of sentences (Simple, Complex, Compound)	03	
	2. I	dioms and Proverbs-	03	
	3.	Correction of errors in words	03	
(ii)	Prosoc	ly and Rhetorics		
	1. P	Prosody (Sama, Bisama, Matra bruta)	03	
	2. F	Rhetorics (Anuprasa, Rupak)	03	
Section	n D : L i	iterature		
Prose:	Prescr	ibed Text: Gadya Dhara, Orissa State Bureau of Text Book		
	prepar	ation and Production, Bhubneswar, 2006	20	
Lesson	ı			
	1.	Swadhina Chinta Biswanath Kar		

2.	Odia Jati Kie	Gopabandhu Das
3.	Kshyana	Mayadhar Mansingh
4.	Manisa (2)	Bhubaneswar Behera
5.	Jatira Jibana O Samskruti	Golak Bihari Dhal
6.	Madhu Sandhan	Chandra Sekhar Rath

Questions

1.	Long answer type question (one out of two)	08
2.	Short answer type questions (two out of four)	05
3.	Explanation (one out of two)	07

Poetry: Prescribed text: Padya Dhara, Orissa State Bureau of Text Book 20

Preparation and Production, Bhubaneswar, 2006 20

Enu Kapota Guru Moro- Jagannath Das Jagate Kebala- Baladev Rath Mo Jibana Pachhe Narke Padithau- Bhima Bhoj

Mu Hata Bahuda- Fakir Mohan Senapati

Barsha- Radhanath Roy

Urkala Kamala Godabarisha Mohapatra
Chhota Mora Ganti Cachindananda Routroy
Grama Patha-Binod, Chandra Nayak
Sarata Ratura, Janma Guru Prasad Mohanty

Questions:

- 1. Long answer type questions (one out of two)
- 2. Short answer type-questions (two out of four)
- 3. Explanation (one out of two)

Drama: 10

Buxi Jagabandhu by Mahorahjon Das, Dasarathi Pustakalaya, Cattuck-2

Questions:

1. Short answer type questions to test knowledge on the theme, plot, character, settings and technique (two out of four)

नेपाली	/ (N	epali)	100			
A.	Grai	mmar (Suggested chapters)				
	(i)	Chahanda : Anustup, Totak, Indrabajraa Sardulvikridit.	, Shikharini, Basantatilaka,			
	(ii)	Alankaar: Anupras, Upama, Rupak Slesh,	Vakrokti, Utpreksha.			
В.	Read	ding Unseen :	10			
C.	Com	position & Writing :	15			
	(a)	Patra Rachana: Vyaktigat, Vyaparik, Dafta	ri and Smarak Patra.			
	(b)	Nibandha Rachana : Aatmaparak, Vicharat	mak.			
D.	Lite	rature : (Prose) :	30			
	Stor	ies:				
	(i)	Machhako mol	Shiva Kumar Rai			
	(ii)	Pipako Hawaldar	Matrika Prasad Koirala			
	(iii)	Rupko Mulya	Bal Krishna Sam			
	(iv)	Chaprasi	Achha Rai Rasik			
	Essa	\mathbf{y}				
	(i)	Dan	Laxmi Prasad Deokota			
	(ii)	Namastey	Tara Nath Sharma			
	(iii)	Sapana	Ram Krishna Sharma			
	Lang	guage-Literature: Nepali Bhasako Utpati				
	Poet	ry : Ritu Vichar - Lekhnath Poudyal	10			
	Drai	ma : (Suggested Chapters) :	10			
	(i)	Natak-Saadharan parichaya				
	(ii)	Nepali Natak-Ko Vikash Katha				
Refere	nce B	ook : Madhyamik Nepali Vyakaran ra Rachan	a			
Referen	ReferenceBook: KathaSangraha, PublishedbyJanapakchhaPrakashan, GangtokSikkim.					
Refere	Reference Book: (to be prepared by the Department of Education, Govt. of Sikkim)					
Refere	nce Bo	ook: Nepali Sahitya Parichaya-Purna Rai				
Refere	nce Bo	ook : Ritu Vichar				
Refere	nce B	ook: Nepali Ekanki Sangraha-Siksha Vibhag,	Sikkim Sarkar.			
UPAN	YASE	I : Daak Bangla : by Shivakumar Rai				

डोगरी	(Dogi	ri)	100
	(क)	शानो (उपन्यास)	50
	(폡)	कविता, निबन्ध संग्रह	50
मलया	लम / ((Malayalam)	100
1.	Gran	nmar	25
	Elem	entary metres and alankaras	
	1.	Upama	
	2.	Utpreksha	
	3.	Atishayokthi	
	4.	Rupakam	
2.	Writi	ing Skills	25
	_	neral study of newspapers/magazines and periodicals in the age with the object of writing	
	(i)	Reports of simple events	05
	(ii)	Letter of Editor	10
	(iii)	Comprehension of an unseen passage followed by short answer question	10
3.	Prose	e, Poetry	50
	1.	Text book: 'SAHITYA DARPANAM' - Collection of Ess and Poems Prescribed by SCERT., Govt. of Kerala Pub. b International CMS College Road, Kottayam, Kerala (2005)	y All Saints
	2.	Moulana Abdul Kalam Azad (Biography) by Dr. M.Leelava Lipi Publications, Kozhikode Prescribed by SCERT, Govt. of Edition).	
	3.	Vidhura Bhiksha by Ulloor (Poem) Prescribed by SCERT Go (Complete text) Pub. by Ulloor Publications, Thiravananthpu	
तमिल	f (Tam	il)	100
A.	Gram	mar	15
B.	Letter	Essay Writing	10+15
C.	Unse	en reading & Comprehension	10
34		उत्तरमध्यमा/प्राक्शास्त्री (सीनिय	र सेकेण्डरी)

D.	(i)	Prose		20			
	(ii)	Poetry		15			
	(iii)	Non-detailed text-book		15			
Text-bo	ooks						
1.	Podhu '	nu Thamizh Text Book Class XII					
2.	Kathai Kovai-non-detailed text Class XII						
	(Tamilr	nadu Text Book Society)					
गुजराती	/ (Gu	ijrati)		100			
Section	n A : Ad	vanced Reading Skills		10			
1.	An unse	een passage of 150 words followed by 5 ques	tions				
Section	Section B : Effective Writing Skills						
	(i)	An essay of 200-250 words on current topic	s.	10			
	(ii)	Story building from given points		08			
	(iii) Letter-Writing (Personal, Professional, Occupational)			08			
Section		14					
	1.	Identifying Alankar: (From prescribed poems	sonly)	03			
	2.	Identifying Idioms (From prescribed poems only)					
	3.	ses	04				
	4.	(04				
Section	:	50					
(a)	Prose:			20			
	1. Four reference to the context questions based on all prescribed lessons (In four or five lines)						
	2.	ns					
Lesson	s to be	Studies :					
S.No.	Lesson	No. Title	Author				
1.	2	Mata Pita ni Agna	Gandhiji				
2.	6	Kanchan Ane Geru	Ramanlal V Desai				
3.	8	Napass	Chandravandan C Meha				
4.	14	Maji No Pyalo	Gulabdas Broker				

35

उत्तरमध्यमा/प्राक्शास्त्री (सीनियर सेकेण्डरी)

5.	16	Diwaliman Noker Gayo	Chinubhai Patwa
6.	18	Navun Darshan	Chhottubhai Suthar
7.	22	Din Khoon ke Hamare	Dhirubhai Thakkar
8.	24	Shruti Ane Smruti	Chandrakant Baxi
9.	26	Indereshwarthi Ashram	Narottam Pallan
10.	28	Putra Shishyat Icchet Parajayam	Girish Ganatra
B.	Poetry:		20

- 1. Two Rasdarshan Bhavarth from the given lines from the prescribed poems only
- 2. Two long questions out of four questions based on the prescribed poems only
- 3. Critical appreciation of any one poem out of three poems

Poems to be studied:

S.No.	Lesson No.	Title	Author
1.	1	Mehulo Gaje Ne Madhav Nache	Narsinh Mehta
2.	5	Janani	Botadhar
3.	7	Phool vin Sakhe!	Kalapi
4.	11	Mane Aej Samajatu Nathi	Karsandas Manek
5.	13	Biju Hun Kai na Magun	Badrayan
6.	15	Koun?	Sundaram
7.	17	Te Shun Kstuim?	Umashanker Joshi
8.	21	Banavati Phoolone	Prehlad Parekh
9.	23	Adhalak Dhaliyo Re Samaliyo	Dinesh Kothari
10.	25	Tham	Nalin Raval
11.	27	Tadko	Sudhir Desai
12.	30	Haiku	Loksahitya, Hemenshah
			& Sneh Rashmi

Prescribed Textbook - Gujrati (Dwitiya A Bhasha) Std. XII Gujarat Rajya Shala Pathya Pustak Mandal 'Vidhyayan' Sector 10 A Gandhinagar (Ed. 2004) Gujrat

C. History of Modern Literature (Broad Outlines)
'Gujarati Sahitya ni Vikas rekha by Dhirubhai Thaker

10

	1.	Dalapatram			
	2.	Narmad			
	3.	Goevrdharam Tripathi			
	4.	K.M. Munshi			
	5.	Gandhi			
	6.	Umashanker Joshi			
	7.	Sundaram			
	8.	Dhumketu			
	9.	Kalapi			
	10.	Pannalal Patel			
मराठी	(Mara	athi)			100
Section					
	Gram			25	
	(i)	Transformation of Sentences in respect of moods, voice	:e		
		and tenses	15		
	(ii)	Transformation of Words	05		
	(iii)	Filling in the blanks with appropriate forms of words	05		
		(Difficulty level should be higher than that of Class XI)			
Section	on B				
	Unsee	en reading comprehension		10	
Section	on C			15	
	Comp	position and Writing			
	Essay	on topical subject relating to Economic, Social and Cultu	ıral Life.		
	in Co	ntemporary society and day-to-day experiences			
Section	on D			50	
	Text-l	books Prescribed by CBSE			
मणिपु	मणिपुरी (Manipuri)			100	
1.	Appli	ed Grammar			
	Numb	per, Case, Sentence Types-Simple, Complex, compound			
उत्तरमध	ध्यमा/प्राक्	त्शास्त्री (सीनियर सेकेण्डरी)			37

Suggested reference books for Grammar

Meete! Lonmit (Part-II) Dr. M.S. Ningomba Published by

Saraswati Book House, Singiamei Imphal

Manipuri Grammar Published by the Board of Secondary

Education, Manipur

2. Prose and Poetry

- A. Prose
- (i) Explanation of the passages from the text
- (ii) Short Notes
- (iii) Questions on the text

Lessons to be studied: (05)

(i)	Madhab gi Qukchel Hongba	Dr. L. Kamal Singh
(ii)	Sahitya	Dwijamani Dev Sharma
(iii)	Inthokpa	R.K. Shitaljit Singh
(iv)	Wakehing-gi-Nong	R.K. Shitaljit Singh
(v)	Sarkargi Chakari	H. Guno Singh

Prescribed book: Manipuri Wareng, Published by the Cultural Forum, Manipur

B. Poetry

- (i) Explanations of passages (from the text) 20
- (ii) Questions on the text

Poems to be studies: (05)

(i)	Meitei Kokil	Dr. L Kamal Singh
(ii)	Cring-gi-Leirang Amada	Kh. Chaoba Singh
(iii)	Mrigchat thiba	H. Anganghal Singh
(iv)	Manipur	E. Nilakanta Singh
(v)	Sabhata gi Phum	R.K. Surendrajit Singh

Prescribed book : *Manipuri Sheireng*, Published by the Manipuri Sahitya Parishad Imphal

C. Supplementary Reading:

Manipuri Lila Mancha (Selected Pieces) Published by

Cultural Form, Manipur

Tirha Tatra-Arambam Samarendra Singh

कन्नड (Kannada) 100

Text book: Sahitya Chandana

पंचमपत्रम्-अर्थशास्त्रम्/इतिहासः/राजनीतिविज्ञानम्/समाजशास्त्रम्/जीवविज्ञानम्/गणितम्/भूगोलः

अर्थशास्त्रम् / (Economics)

Part A: Introductory Microeconomics

50

Unit 1: Introduction

What is microeconomics?

04

Central problems of an economy, production possibility curve and opportunity cost

Unit 2: Consumer Behaviour and Demand

13

Consumer's Equilibrium-meaning and attainment of equilibrium through Utility Approach: One and two commodity cases Demand, market demand, determinants of demand, demand schedule, demand curve, movement along and shifts in demand curve, price, elasticity of demand, measurement of price elasticity of demand-precentage, total expenditure and geometric method.

Unit 3: Producer Behaviour and Supply

15

Production function: Returns of a factor and Returns to scale

Supply, market supply, determinants of supply, supply schedule, supply curve movement along and shifts in supply curve, price elasticity of supply, measurement of price elasticity of supply-percentage and geometric method.

Cost and Revenue: Short run costs-Total cost, Total variable cost, Total Fixed cost; Average Fixed cost, Average Variable cost and Marginal cost meaning and their relationship. Revenue-total, average and marginal revenue-Producer's equilibrium-Meaning and its conditions in terms of total cost and total revenue.

Unit 4: Forms of Market and Price Determination

Forms of market-Perfect competition, Monopoly, Monopolistic competition-their meaning and features.

Price determination under perfect competition-Equilibrium price, effects of shifts in demand and supply.

Unit 5 : Simple applications of Tools of demand and supply			
B: Introductory Macroeconomics		50	
Unit 6: National Income and related aggregates			
Macroeconomics: Meaning			
Circular flow of income, concepts of GDP, GNP, NDP, NNP (at market pric and factor cost), National Disposable Income (gross and net): Private Income			
Personal Income and Personal Disposable Income, Measurement of Nation			
Income-Value Added Method, Income methods and Expenditure meth	od.		

Unit 7: Determination of Income and Employment

12

Aggregate demand, Aggregate supply and their components.

Propensity to consume and propensity to save (average and marginal).

Meaning of involuntary unemployment and full employment.

Determination of income and employment: Two sector model.

Concept of investment multiplier and its working.

Problems of excess and deficient demand:

Measures to correct excess and deficient demand-availability of credit, change in Government spending.

Unit 8: Money and Banking

08

Money-meaning, evolution and functions

Central bank-meaning and functions

Commercial banks-meaning and functions

Unit 9: Government Budget and the Economy

08

Government budget-meaning and its components

Objectives of government budget

Classification of receipts-revenue and capital: classification of expenditure-revenue and capital, plan and non-plan, and developmental and non-developmental, Balanced budget surplus budget and deficit budget: meaning and implications. Revenue deficit, fiscal deficit and primary deficit: meaning and implications; measures to contain different deficits.

Unit 10: Balance of Payments

Foreign exchange rate-meaning (Fixed and Flexible) merits and demerits; Determination through demand and supply

Balance of payments account meaning and components

Books Prescribed

अर्थश	सास्त्र / Economics (N.C.E.R.T.)	
इतिह	तसः (History)	100
	Units	
	Section A : Archaelogy & Ancient India	25
	Units 1-4	
	Section B : Medieval India	30
	Unit 5-9	
	Section C : Modern India	35
	Unit 10-15	
	Unit 16 : Map Work	10
	Themes in Indian History	
Sect	ion A : Archaeology & Ancient India	25
1.	The Story of the First Cities: Harappan Archaeology,	
	Story of discovery: Early urban centres.	
	Story of discovery: Harappan civilization	
	Excerpt: Archaeological report on a major site	
	Discussion: how it has been utilized by archaeologists/historians.	
2.	Political and Economic History: How Inscriptions tell a story.	

Pontical and Economic History: now hiscriptions ten a story.

Board overview: Political and economic history from the Mauryan to the Gupta period.

Story of discrovery: Inscriptions and the decipherment of the script, Shifts in the under standing of political and economic history.

Excerpt: Asokan incription and Gupta period and grant.

Discussion: Internation of inscriptions by historians.

3. Social Histories : Using the Mahabharata Broad overview : Issues in social history, including caste, class kinship and gender.

Story of discovery: Transmission and publications of the Mahabharat.

Excerpt: from the Mahabharata, illustrating how it has been used by historians.

Discussion: Other sources for reconstructing social history.

4. A History of Buddhism : Sanchi Stupa Broad overview : (a) brief review of religious histories of Vedic religion, Jainism, Vaisnavism, Saivism (b) Focus on Buddhist.

Story of discovery: Sanchi stupa

Excerpt: Reproduction of sculptures from Sanchi.

Discussion: Ways in which sculpture has been interpreted by historians, other sources for reconstructing the history of Buddhism.

Section B: Medieval India

30

5. Agrarian Relations: The Ain-i-Akbari

Broad overview: (a) Structure of agrarian relations in the 16th and 17th centuries (b) Patterns of change over the period.

Story of Discovery : Account of the compilation and translation of *Ain-i-Akbhari*.

Excerpt: from the *Ain-i-Akbari*

Discussion: Ways in which historians have used the text to reconstruct history.

6. The Mughal Court: Reconstructing Histories through Chronicles

Board Overview: (a) Outline of political history 15th-17th centuries. (b) Discussion of the Mughal court and politics.

Story of Discovery: Account of the production of court chronicles, and their sub-sequent translation and transmission

Excerpt: from the *Akbaranama and Pads hahnama*.

Discussion: Ways in which historians have used the texts to reconstruct political histories.

7. New Architecture Hampl: Board Overview: (a) Outline of new building during Vijaynagar period-temples, forts irrigation facilities (b) Relationship between architecture and the political system.

Story of Discovery: Account of how Hampi was found.

Excerpt: Visuals of buildings at Hampi

Discussion : Ways in which historians have analyzed and interpreted these structures.

8. Religious Histories : The Bhakti-Sufi tradition;

Broad Overview: (a) Outline of religious developments during the period. (b) Ideas and practices of the Bhakti-Sufi saints.

Story of Transmission : How Bhakti-Sufi compositions have been preserved.

Excerpt: Extracts from selected Bhakti Sufi works.

Discussion : Ways in which these have been interpreted by historians.

9. Medieval Society Through Travellers' Accounts

Broad Overview: Outline of social and Cultural life as they appear in travellers' accounts.

Story of their writings: A discussion of where they travelled, why they travelled, what they wrote, and for whom they wrote.

Discussion : What these travel accounts can tell us and how they have been interpreted by historians.

Section C Modern India

35

10. Colonialism and Rural Society: Evidence from Official Reports'

Broad overview: (a) Life of zamindars, peasants and artisans in the late 18 century (b) East India Company, revenue settlements and surveys, (c) Changes over nineteenth century.

Story of official record : An account of why official investigations into rural societies were under taken and the types of records and reports produced.

Excerpts: From Firminger's Fifth Report, Accounts of France Buchanan-Hamiltion and Deccan Riots Reports,

Discussion : What the official records tell and do not tell and how they have been used by historians.

11. Representation of 1857

Broad Overview: (a) The events of 1857-58

(b) How these events were recorded and narrated.

Focus: Lucknow.

Excerpts: How the pictures of 1857 shaped British opinon of what had happened.

12. Colonialism and Indian Towns: Town Plans and Municipal Reports

Broad Overview: The growth of Mumbai, Chennai, hill stations and cantonments in the 18th and 19th century.

Excerpts: Photographs and paintings. Plans of cities. Extract from town plan reports. Focus on Kolkata town planning.

Discussion : How the above sources can be used to reconstruct the history of towns. What these sources do not reveal.

13. Mahatma Gandhi through Contemporary Eyes

Broad Overview: (a) The nationalist movement 1918-43.

(b) The nature of Gandhian politics and leadership

Focus: Mahatma Gandhi in 1931.

Excerpts: Reports from English and Indian language newspapers and other contemporary writings.

Discussion : How newspapers can be a source of history.

14. Partition though Oral Sources

Broad Overview: (a) The history of the 1940s; (b) Nationalism. Communalism and Partition.

Focus: Punjab and Bengal.

Excerpts: Oral testimonies of those who experienced partition.

Discussion: Ways in which these have been analyzed to reconstruct the history of the event.

15. The making of the Constitution

Broad Overview: (a) Independence and the new nation state (b) The making of the constitution.

Focus: The Constitutional Assembly debates.

Excerpts: from the debates

Discussion: What such debates reveal and how they can be analyzed.

16. Map work on Unit 1-15

Prescribed books

भारतीय इतिहास के कुछ अंश (NCERT) (कक्षा XII)

Themes in Indian History (NCERT) (for Class XII)

राजनीतिविज्ञानम्	/	(Political	Science)
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100

Part A: Contemporary world Politics

46

1. Cold War Era in World Politics

06

Emergence of two power blocs after the second world war. Arenas of the cold war. Challenges to Biopolarity: Non Aligned Movement, quest for new international economic order. India and the cold war.

2. Disintegration of the 'Second World' and Collapse of Bipolarity. 12

New entities in world politics: Russia, Balkan states and Central Asian states, introduction of democratic politics and capitalism in post-communist regimes. India's relations with Russia and other post-communist countries.

3. US Dominance in World Politics :

Growth of unilateralism: Afghanistan, first Gulf War, response to 9/11 and attack or Iraq. Dominance and challenge to the US in economy and ideology. India's renegotiation of this relationship with the USA.

4. Altenative Centres of Economic and Political Power:

Rise of China as an economic power in post-Mao era, creation and expansion of European Union, ASEAN, India's changing relations with China.

5. South Asia in the Post-Cold War Era:

Democratisation and its reversals in Pakistan and Nepal. Ethnic conflict in Sri Lanka. Impact of econmic globalization on the region. Conflicts and efforts for peace in South Asia. India's relations with its neighbours.

6. International Organizations in a unipolar World:

06

03

Restructuring and the future of the UN. India's position in the restructured UN. Rise of new international actors; new international economic organisations, NGOs. How democratic and accountable are the new institutions of global governance?

7. Security in Contemporary World:

04

Traditional concerns of security and politics of disarmement, Non-traditional or human security: global poverty, health and education. Issues of human rights and migration.

8. Globalisation and Its Critics.

Economic, cultural and political manifestations, Debates on the nature of consequences of globalisation. Anti-globalisation movements. India as an areana of globalization and struggle against it.

9. Era of On -Party Dominance:

06

First three general elections, nature of Congress dominance at the national level, uneven dominance at the state level, coalitional nature of Congress. Major opposition parties.

10. Nation-Building and Its Problems :

04

Nehru's approach to nation-building: Legacy of partition: challenge of refugee' resettlement, the Kashmir problem. Organisation and reorganization of states; Political conflicts over language.

11. Politics of Planned Development

06

Five year plans, expansion of state sector and the rise of new economic interests. Famine and suspension of five years plans. Green revolution and its political fallouts.

12. India's External Relations

06

Nehru's foreign policy. Sino-Indian war of 1962, Indo-Pak war of 1965 and 1971. India's nuclear programme and shifting allliances in world politics.

13. Challenge to and Restoration of Congress System :

04

Political succession after Nehru. Non-Congressism and electoral upset of 1967, Congress split and reconstitution, Congress's victory in 1971 elections, politics of 'garibi hatao'.

14. Crisis of the Constitutional Order:

10

Search for 'committed' bureaucracy and judiciary. Navnirman movement in Gujarat and the Bihar movement. Emergency: context, constitutional and extra-constitutional dimensions, resistance to emergency. 1977 elections and the formation of Janata Party. Rise of civil liberties organisations.

15. Regional Aspirations and Conflicts

04

Rise of regional parties. Punjab crisis and the anti-Sikh riots of 1984. The Kashmir situation. Challengues and respones in the North East.]

16. Rise of New Social Movements:

06

Farmers' movements, Women's movement, Environment and Development-affected people's movements. Implementation of Mandal Commission report and its after-math.

and UPA government. 18. Regent issues and challenges Challenge of and responses to globalization: new exonomic policy and its opposition. Rise of OBC in North Indian politics. Dalit politics in electoral and non-electoral arena. Challenge of communalism: Ayodhya dispute, Gujarat riots. **Prescribed Books** समकालीन विश्व राजनीति, कक्षा (NCERT) 12 के लिए 1. Contemporary World Politics (for Class XII) स्वतन्त्र भारत में राजनीति (NCERT) 2. Politics in Independent India समाजशास्त्रम् / (Sociology) 100 50 **INDIAN SOCIETY** 05 **Unit I: Structure of Indian Society** Introducing Indian Society Colonialism, Nationalism Class and Community Demorgraphic structure Rural-Urban Linkages an Divisions **Unit II: Social Institutions: Continuity & Change** 15 Family and Kinship The Caste System Tribal Society The Market as a Social Institution 15 **Unit III: Social Inequality & Exclusion** Caste Prejudice, Scheduled Castes and Other Back ward Classes Marginalization of Tribal Communities. The Struggle for Women's Equality उत्तरमध्यमा/प्राकृशास्त्री (सीनियर सेकेण्डरी) 47

Participatory upsurge in 1990s. Rise of the JD and the BJP. Increasing role of regional parties and coalition politics. UF and NDA government. Elections 2004

Democratic Upsurge and Coalition Politics

04

17.

•	The Protection of Religious Minorities		
•	Caring for the Differently Abled		
Unit IV: T	he Challenges of Unity in Diversity	15	
•	Problems of Communalism, Regionalism, Casteism & Patriarcl	ny	
•	Role of the State in a Plural and Unequal Society.		
•	What We Share		
Change and	d Development in India		50
Unit V : Pro	ocess of Social Change in India	10	
•	Process of Stuctural Change: Colonialism, Industrialization, Urbanization		
•	Process of Cultural Change: Modernization, Westernization, Sanskritisation, Secularization.		
•	Social Reform Movement & Laws		
Unit VI : So	ocial Change and the Polity	10	
•	The Constitution as an instrument of Social Change		
•	Parties, Pressure Groups and Democratic Politics		
•	Panchayati Raj and the Challenges of Social Transformation		
Unit VII: S	ocial Change & the Economy	10	
•	Land Reforms, the Green Revolution and Agrarian Society		
•	From Planned Industrialization to Liberalization		
•	Changes in the Class Structure		
Unit VIII:	New Areas of Social Change	10	
•	Media and Social Change		
•	Globalization and Social Change		
Unit IX : So	ocial Movements	10	
•	Class-Based Movement: Workers, Peasants		
•	Caste-Based Movement: Dalit Movement, Backward Castes Trends in Upper Caste Responses.	,	
•	Women's Movement in Independent India		

- Tribal Movements.
- Environmental Movements.

Prascribed Book

समाजशास्त्रम् कक्षा XII (NCERT) Sociology Class XII (NCERT)

जीवविज्ञानम् / (Biology) 100 Units 1. 15 Sexual reproduction 2. Genetics and evolution 30 3. Biology and human Welfare 20 4. Biotechnology and its applications 15 5. 20 Ecology and environment

I. Sexual Reproduction

Pollination and fertilizations in flowering plants

Development of seeds and fruits.

Human reproductions: reproductive system in male and female, menstrual cycle. Production of gametes, fertilization, implantation, embryo development, pregnancy and parturition.

Reproductive health-birth control, contraception and sexually transmitted diseases.

II. Genetics and evolution

Mendelian inheritance.

Chromosome theory of inheritance. deviations from mendelian ration (gene interaction-Incomplete dominance, co-dominance, complementary genes, multiple alleles),

Sex determination in human beings: XX, XY.

Linkage and crossing over. Ingeitance pattern of haemophilia and book groups in human beings. DNA: replication, trancription, translation. Gene expression and regulation Genome and Hman Genome Project. DNA fingerprinting. Evolution: Theories and evedences.

III. Biology and Human Welfare

Animal husbandry. Basic Concepts of immunology, vaccines. Pathogens, Parasites. Plant breeding, tissue culture, food production. Microbes in household food processing, industrial production, sewage treatment and evergy generation. Cancer and AIDS

Adolescence and drug/alcohol abuse.

IV. Biotechnology and Its Applications

Recombinant DNA technology. Applications in Health, Agriculture and Industry Genetically modified (GM) organisms; biosafety issues. Insulin and Bt cotton

V. Ecology & Environment

Ecosystems: components, types and evergy flow.

Species, population and community.

Ecological adaptations.

Centres of diversity and conservation of biodiversity, National parks and sanctuaries.

Environmental issues.

Prescribed Books

जीवविज्ञानम् भाग II Biology Class XII (N.C.E.R.T.)

गणितम	गणितम् / (Mathematics)			
Units				
	I	Relations and Functions	10	
	II	Algebra	13	
	III	Calculus	44	
	IV	Vectors and three-Dimensional Geometry	17	
	V	Linear Progaming	06	
	VI	Probability	10	

Unit-I: Relations and Functions

1. Relations and Functions:

Types of relations: relations:, symmetric, transitive and equivalence relations. One to one and onto functions, composite functions, inverse of a function. Binary operations.

2. Inverse Trigonometric Functions:

Definition, range, domain, principal value branches. Graphs of inverse trigonometric functions. Elementary properties of inverse trigonometric functions.

Unit-II: Alegebra

1. Matrices:

Concept, notation, order, equality, types of matrices, zero matrix, transpose of a matrix symmetric and skew symmetric matirices. Addition, multiplication and scale multiplication of matrices, simple properties of addition, multiplication and scale multiplication. Non-commutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restrict to square matrices of order 2). Concept of elementary tow and column operations. Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entities).

2. Determinants:

Determinant of a spare matrix (up to 3×3 matrices), properties of determination of minors, cofactors and applications of determinants n finding the area of a tringle Adjoint and inverse of a square matrix. Consistencey, inconsistency and number of solutions of system of liner equations by examples, solving system of linear equation in two or three variables (having unique solution) using inverse matrix.

Unit-III: Calculus

1. Continutiy and differentiability:

Continutiy and differentiablity, derivative of composite functions, chain rule, derivatives of inverse trigonometric functions, derivative of implicit function. Concept of exponential and logrithmic functions and their derivative. Logarithmic differentiation. Derivative of functions expressed in parametrifc-forms. Second order derivatives. Rolle's and Lgrange's Mean Value Theorems (without proof) and their geometric interpretations.

2. Applications of Derovatives:

Applications of derivatives: rate of change, increasing/decreasing functions, tangents & normals, approximation, maxima and minima (first derivative test motivated geometrically and second derivative test given as approvable tool).

3. Integrals:

Integration as inverse process of differentiation. Intergation of a varity of functions by substitution, by partical fractions, fractions and by parts, only simple integrals of the type to be evaluated.

$$\left| \frac{dx}{x^2 \pm a^2}, \frac{dx}{\sqrt{x^2 \pm a^2}}, \left| \frac{dx}{\sqrt{a^2 - x^2}}, \right| \frac{dx}{ax^2 + bx^2 + c}, \left| \frac{dx}{ax^2 + bx + c} \right|$$

$$\left| \frac{(px+q)}{ax^2 + bx + c} dx, \left| \frac{(px+q)}{ax^2 + bx + c} dx, \right| \sqrt{a^2 \pm x^2} dx \text{ and } \right| \sqrt{x^2 - a^2} dx$$

Definite integrals as a limit of a sum. Fundamental Theorem of Calculus (without proof). Basic properties of definite integrals and evaluation of definite integrals.

4. Application of the Integrals:

Applications in finding the area under simple curves, especially lines, areas of circles/ parabolas/ellipses (in standard form only), area between the two above said curves (the region should be clearly indentifiable).

5. Differential Equations:

Definition, order and degree, general and particulars solutions of a differential equation. Formation of differential equation whose general solution is given. Solution of differential equations by method of seperation of variables, homegeneous differential equations of first order and first degree. Solutions of linear differential equation of the type:

dy+py = q, where p and q are funtions of x. dx

Unit VI: Vectors and Three-Dimensional Geometry

1. Vectors:

Vectors and scalars, magnitude and direction of a vector. Direction cosines/ratios

of vectors. Type of vectors (equal, unit, zero, parallel and collinera vectors), position vector of a point, negative of a vector, components of a vetor, addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio. Scalar (dot) product of vectors, projection of a vector on a line. Vector (cross) product of vectors.

2. Three-dimensional Geometry:

Direction consines/ratios of a line joining two point's. Cartesian and vector equation of a line, coplanar and skew lins, shortest distance between two lines. Cartesian and vector equation of a plane. Angle between (i) two lines, (ii) two planes, (iii) a line and a plane. Distance of a point from a place.

Unit-V: Linear Programming

1. Linear Programming:

Introduction, definition of related terminology such as constraints, objective function, optimization, different types of linear programming (L.P.) problems, mathematical inornmlation of L.P. problems, graphical method of problems in two variables, feasible and infeasible regions, feasible and infeasible solutions. optimal feasible solutions (up to three non-trivial constraints).

Unit-VI: Probability

1. Probability:

Multiplication theorem on probability. Conditional probability, independent events, total probability, 8aye's theorem, Random variable and its probability distribution, mean and variance of haphazard variable. Repeated independent (Bernoulli) trials and Binomial distribution.

Prescribed Books

गणित भाग II (कक्षा XII) (N.C.E.R.T.) Mathematics, Part II for Class XII (N.C.E.R.T.)

भूगोल / (Geography)		100
A.	Foundamentals of Human Geography	50
	Unit 1: Human Geography	05
	Unit 2 : People	10

	Unit 3: Human Activites	10
	Unit 4: Transport, communication & Trade	10
	Unit 5: Human settlements	10
	Unit 6: Map work	05
В.	India: People and Economy	50
	Unit 7: People	05
	Unit 8: Human Settlements	05
	Unit 9: Resources and Development	15
	Unit 10: Transport, Communication and International Trade	15
	Unit 11: Geographical Perspective on selected issues and problems	05
	Unit 12: Map Work	05

A. Fundamentals Human Geography

Unit 1: Human Geography: Nature and Scope

Unit 2 : People

- Population-distribution, density and growth
- Population change-spatial patterns and structure; determinants of population change;
- Age-sex ratio; rural-urban composition:
- Human development-concept; selected indicators, international compari-sons

Unit 3: Human Activities

- Primary activites-concept and changing trends; gathering, pastoral, mining, subsistence agriculture, modern agriculture; people engaged in agricultural and allied activities-some examples from selected countries;
- Secondary activities-concept; manufacturing: agro-processing, household, small scale, large scale; people enagaged in secondary activities-some examples from selected countries;
- Tertiary activities-concept; trade, transport and communication; services; people engaged in tertiary activities-some examples from selected countries.
- Quaternary activities-concept; knowledge based industries; people enagaged in quaternary activities-some examples from selected countries.

Unit 4: Transport, Communication and Trade

- Land transport-rods, railways; trans-continental railways;
- Watertransport-inland waterways; major ocean routes;
- Air Transport-Intercontinental air routes;
- Oil and gas pipelines;
- Satelite communication and cyber space
- International trade-Bases and changing patterns; ports as geteways of international trade, role of WTO in International trade.

Unit 5: Human Settlements

• Settlement types-rural and urban; morphology of cities (case study); distribution of mega cities; problems of human settlements in developing countries.

Unit 6: Map work on identification of features based on above units on the Political map of World

Part B. India: People and Economy

Unit 7 : People

- Population: distribution, density and growth; composition of population linguistic; sex, rural-urban and occupational change through time-regional varintions;
- Migration: international, national-cause and consequences;
- Human developments selected indicators all regional patterns;
- Population, environment and development.

Unit 8: Human Settlements

- Rural settlements-types and distribution;
- Urban settlements-types, distribution and functional classification.

Unit 9 : Resources and Development

- Land resources-general land use; agricultural land use, Distribution of major crops (Wheat, Rice, Tea, Coffee, Cotton, Jute, Sugarcane and Rubber), agricultural development and problems.
- Water resources-availability and utilization-irrigation, domestic, industrial and other uses; scarcity of water and conservation methods-rain water harvesting, and watershed management.

- Mineral and energy resources distribution of metallic (Ironore, Copper, Bauxite, Managanese) non-metallic (Mica, Salt) minerals; conventional (Coal, Petroletun, Natural gas and Hydro electricity) and non-conventional *energy* sources (solar, wind, biogas).
- Industries-types, industrial allocation and clustering; distribution and changing pattern of selected industries-iron and steel, cotton textiles, sugar, petrochemicals, and knowledge based industries; impact of liberalization, privatisation aid globalisation on industrial location;
- Planning in India-target area planning (case study); idea of sustainable development (case study)

Unit 10: Transport, Communication and International Trade

- Transport and communication, roads, waterways and airways: oil and gas pipelines; national electric grids; communication networking-radio, television, satellite and internet;
- International trade-changing pattern of India's foreign trade: sea ports and their hinterland and airports.

Unit 11 : Geographical Perspective on Selected Issues and Problems

- Environmental pollution; urban -waste disposal.
- Urbanisation-rural-urban migration; problem of slum.
- Land Degradation.

Unit 12: Map work on locating and belling of features based on above units and outline political map of India.

Prescribed Book

भूगोल कक्षा XII (N.C.E.R.T.) Geography for Class XII (N.C.E.R.T.)

षष्ठं पत्रम्-वेदः/व्याकरणम्/साहित्यम्/ज्यौतिषम्/दर्शनम्/जैनदर्शनम्/बौद्धदर्शनम् 100

वेद:

(अ) शुक्लयजुर्वेदे रुद्राष्टाऽध्यायी (पञ्चमाध्यायत: अष्टमाध्यायपर्यन्तम्) सस्वरमन्त्रकण्ठस्थीकरणम् 70

(ब) स्वराणां सामान्यपरिचय: 30

व्याकरण	गम्		1	100
	वैयाकरण	गसिद्धान्तकौमुदी, अजन्तपुल्लिंगादारभ्य अव्यान्तो भाग:		
	अङ्कविभ			
	(1)	अजन्तपुल्लिंगप्रकरणम्	25	
	(2)	अजन्तस्त्रीलिंगाप्रकरणम्	10	
	(3)	अजन्तनपुंसकलिंगप्रकरणम्	10	
	(4)	हलन्तपुल्लिंगप्रकरणम्	20	
	(5)	हलन्तस्त्रीलिंगप्रकरणम्	15	
	(6)	हलन्तनपुंसकलिंगप्रकरणम्	15	
	(7)	अव्ययप्रकरणम्	05	
साहित्य	म्		1	100
	चन्द्रालोव	कः प्रथममयूखः		
ज्यौतिष	म्		1	100
	(1)	लघुजातकम्	60	
	(2)	भास्करीयबीजगणितम्, चक्रवालपर्यन्तम्	40	
दर्शनम्			1	100
,	अर्थसंग्रह	ξ :		
जैनदर्श	नम्		1	100
	परीक्षामुर	बसूत्रम्, माणिक्यनन्दिविरचितम्		
बौद्धदश	निम्		1	100
	पालिप्रवे	शिका (कोमलचन्द्रजैन)		
सप्तमं प	ग्रम् - र	प्तंगणक विज्ञानम् (Computer Science)	1	00
Unit I				
1.	Introd	uction to Internet	3 sessio	ns
	Internet, Growth of Internet, Owners of the Internet, anatomy of Internet, ARPANET and internet history of the World Wide Web, Basic Internet Terminology, Net etiquette.			

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उत्तरमध्यमा/प्राक्शास्त्री (सीनियर सेकेण्डरी)

Internet Applications-Commerce on the Internet, Governance on the Internet, Impact of Internet on Society-Crime on/through the Internet.

2. World wide Web

3 sessions

Evolution of WWW, Basic features, WWW Browsers, WWW Server, HTTP, Universal Resource Locator (URL), Search Engines and their Categories, Searching Criterion, WWW and Hypertext.

3. Browsers 6 sessions

Basic features, Bookmarks, history, Progress indicators, Customization of Browsers, saving and printing web pages, Netscape Comni Network & Wide area Network

Addressing in Internet: DNS, Domain Name and their organization, unicator, - Internet Explorer

4. Electronic mail

6 sessions

Introduction of e-mail, Email Networks and Servers, Email protocols - SM1P, POP3, PMAP4, MIME6.

Structure of an Email-Email address, Email Header, Body and Attachments.

Email Clients: Netscape Mail Clients, Outlook Express, Web based E-mail Email encryption-Address bok Signature file.

5. HTML 15 sessions

Document Layout, Header Elements, section Headings, Block-oriented elements, lists, inline elements, Visual markup, Hypertext links, Uniform resource Locators (URLs), Images, Forms, Tables and Special Charcters. Pracical work based on HTML.

Revision 2 sessions
Unit II 1 session

5. Introduction to Business Data Processing

Overview of Business System:

4 sessions

Management functions, Levels of management, Information requirements for planning, coordination and control for various levels in Business, Industry and Government.

Profile of data in business systems: 6 sessions Large volumes of data and data handling implicit, identification of relevant data. Classification of data elements by function and by source, primary and secondary. Historical data for reference and analysis. Need or ensuring accurate, reliable and timely processing of data. Basic

tasks in business data processing, data origination, capture, sorting, merging, calculating, summarizing, managing output-results, sorting and retrieving transmission, both interim and final, examples of business data processing and applications payroll, financial, accounting, inventory, etc.

Computer system as a potential tool to meet business data processing needs, facilities available in computerized systems for data capture; online and offline; validation; storage; processing and output; transmission.

6. Introduction to Visual Fox Pro

20 sessions

- 6.1 **Introduction to Visual FoxPro:** The menu system, file types, The Toolbars, Visual Design and Wizards, The Command Window and View window. Other features of Visual FoxPro interface.
- 6.2 **Tables in Visual FoxPro:** Creating a new Table, Table wizard, using Table Designer, Using Tables, Opening a table, Working on a table, Modifying a table
- 6.3 **Managing Data:** Switching from Browse to Edit display, Entering and Editing Data, Appending data, Editing data, Moving through a Table, Go To Record command, Find and Replace, Deleting a Record, Altering the Display of the Browse Window
- 6.4 **Using Queries:** Creating a Query Wizard, Query Designer, Running the Query, Using the Using the Query, the Cross Tab Wizard, Modifying the Query, The Query Designer.

7. Overview of Business Applications

8 sessions

Design, analysis and development of: Computerized Financial Accounting, Computerized Inventory Control, and Computerized Payroll, Computerized Invoicing application

Revision 2 sessions
Unit II Test 1 session
Revision Remaining sessions

