31. 10. ((110)	Sr.	No.	16915
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Roll	No.		

BMLT/ BOTT – 1st SEMESTER EXAMINATIONS; JANUARY-2018 (SUB: - PATHOLOGY; PAPER CODE:-5200105 / 5230105)

TIME:	N3.	ΛΛ	Hre
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Max Marks:60

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- 1. Write your Roll No. on the Question Paper.
- 2. Candidates should ensure that they have been provided with correct question paper. Complaints in this regard, if any should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.

	PART-A(OBJECTIVE TY	PE QUESTIONS OMR S	SHEETS)
	EMPT ALL QUESTIONS:		
_	le Response Questions:-		•
Q.1.	Following are the branches of pathology exc	-	
	a) Histopathology b) Cytology	c) Hematology	d) Pharmacology
2.	Normal cell have the following except:-		
C	a) Cell membrane b) Cytoplasm	c) Epithelium	d) Nucleus
Ų.3.	Cell membrane is:- a) Fully permeable	b) Semipermeable	
	c) Impearable	d) All of the above	
	- imputation	4, 1 0	
Q.4.	Cytoplasm has the following?		
	a) Proteins b) Clotting factors	c) Cholesterol	d) All of the above.
Q.5.	Nucleus contains:-		
	a) Nuleioli b) Chromatin	c) Both a & b	d) None of the above.
Q.6.	Cell cycle does not have:-	a) Talambasa	d) Linaca
	a) Prophase b) Metaphase	c) Telophase	d) Lipase.
).7.	All are the causes of cell injury except:-		·
_	a) Genetic and familial causes		
	b) Vegetarian foods.		
	c) Microbial infections.		
	d) Nutritional derangements.		
0.8.	Various types of microscope are:-		
· · ·	a) Light microscope.		
	b) Fluorescence microscope.		
	c) Electron microscope.		
	d) All of the above.		

Q.10). Blo	od have the following except:-			(1)
	a)	RBC.	b) WBC.		•
	b)	Bacteria normally.	d) Platelets		
0.11	. Wh	ich statement is true:-			(1)
•		Shape of RBC is biconcave.			
		Life span of red cell is 60 days.			
		Normal count of RBC is 10 millions/cmm			
	,	Polycythemia is decreased in RBC count.			
0.12	2. Wh	nich statement is False about Erythropoietin:-			(1)
۷		It is produced by kidney.			,
	•	It helps in production of RBC.			
	c)	Its level is increased in Heart diseases.			
	d)	It is not normally present in blood.			
Q.13	3. Ma	tch the following:-			(1)
air.	a.	ESR	1. Hb estination		•
1		MCH.	2. RBC volume		
	c.	MCV.	3. Mean corpuscular hemo	globin.	
	d.	Sahli's method.	4. Westergren method		
		a4, b3, c2, d1		:	
		a1, b2, c4, d4			
		a3, b4, c1, d2			
		a1, b4, c3, d2		. 3	
Q.1		atch the following regarding their normal cou			(1)
		Neutrophil	1. 2% to 7%		
		Lymphocyte.	2. 0% to 1%		
		Eosinophil.	3. 25% to 40%.		
	d.	Basophil.	4. 40% to 60%		L
	A.	a3, b4, c2, d1			
	В.		and the second of the second	•	
	C.	a4, b3, c1, d2			
	D.	a2, b1, c3, d4		•	
0.1	= 1 (Ash des Cillian Conservation at 1			/=>
Q.I		atch the following regarding their normal cou			(1)
	a.	RBC	1. 4000 to 11000/ cmm		
	b.	WBC	2. 40 to 400/ cmm		
	c.	Platelet.	3. 5 millions/ cmm.		
	a.	Absolute cosinophil count.	4. 1.5 to 4.5 lacs		
	A.	a2, b4, c1, d3		•	
	В.	a3, b1, c4, d2			
		al, b2, c3, d4			
	D.	a4, b3, c2, d1			

Q.16. Which of the following is true:-			(1)
 a) PCV can be measured by Westerngren b) ESR can be measured by both Wintrob c) Both are the correct statement. 			
d) Both are incorrect.			
Q.17. Stains used in staining of PBF:- a) Leishman stain b) H & E stain	c) Giemsa stan	d) All of the above	(1)
Q.18. Blood smear slide can be divided into:-a) Headb) Body	c) Tail	d) All are true.	(1)
Q.19. The best area of PBF to see the morphologa) Between Head and body of the blood filec) Area of Head only.	•	tail of the blood film	(1)
Q.20. Various anticoagulant used in the hematoloa) Trisodium citrate.c) None of the above	ogy lab are:- b) EDTA d) Both a & b.		(1)
Q.21. What is false about the following statemental a) Various components of blood are formed b) Leishman's staining is most commonly c) Quality assurance is must for a good lab d) Well trained Lab technician is the back	d by 'Stem cell' used method in hematology. oratories.	ratory.	(1)
Q.22. A hematology laboratory must be equippeda) Well trained lab staff.c) Standardized stains and equipments.	d with:- b) Visual as well as election (c) All of the above.	etronic cell counters	(1)
Q.23. Uses of Neubauer chamber are in the count a) RBC c) Bacteria	ting of the following except:- b) WBC d) Sperms	• ;; ;;	(1)
 Q.24. Which statement is true? a) Neubauer chamber is good and reliable b) Electronic cell counters are not must for c) A lab must be equipped with Electronic d) Hemocytometery is a branch of microbi 	r a good standard laboratory counters and manual visual a		(1)
Q.25. DNA is present in a normal cell in:-a) Nucleusc) Both a & b.	b) Mitochondria d) None of the above.		(1)
Q.26. With leishman's stain which cell gives 2 toa) Neutrophilc) Basophil	b) Eosinophil d) Monocyte.		(1)
Q.27. The reagent used in Sahli's estimation is: a) N/40HCL c) N/20HCL.	b) N/30HCL d) N/10HCL	РТО	(1)

Q.28. Which statement is true about Reticulocyte:b) It is a form of a Stem cell. a) It is an immature RBC d) Reticulocyte is a mature WBC. c) It is a mature form of a red cell. (1)Q.29. The production of RBC in bone marrow is regulated by:**b)** Thyroxin a) Renin d) None of the above. c) Erthropoietin **(1)** Q.30. Which statement is true:a) Cell membrane is totally impermeable. b) Cell cycle consists of four stages- Prophase, metaphase, Telophase and Anaphase. c) DNA has no genetic information. d) Nucleus does not have chromatin. PART-B (DESCRIPTIVE TYPE) (3x4=12)I. Short note types (Attempt any three):-Q.1. Sahli's method hemoglobin estimation. 7 Q.2. Various types of microscopy. Q.3. Normal cell structure. Q.4. Neubauer chamber counting of RBC. (2x5=10)II. Define and discuss (Attempt any Two):-Q.1. Various hematological indices. Q.2. Reticulocyte estimation. Q.3. Visual and electronic counts of Leucocytes. (1x8=8)III. Long easy type (Attempt any one):-Q.1. Mention various anticoagulants. Give their uses and mode of action? Q.2. Write the full form of ESR. Describe the procedure for estimation and mention conditions with increased ESR value.

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