- **38.** Which of the following statement is not correct for acute lymphoblastic leukemia :
 - (1) CNS manifestations may be present.
 - (2) It has BCR-ABL fusion gene of 210 KD.
 - (3) Surface expression is positive for TdT.
 - (4) It has numerical chromosomal change

39. Increased incidence of malignant tumour in ataxia telangiectasia is due to :

- (1) Defective DNA repair (2) Mutatuion of p53 gene
- (3) Mutation of RAS gene (4) Polymorphism of P-450 locus

Monoclonal antibody to CD20.(Rituximab)is used in the treatment of :

- (1) Carcinoma breast (2) Lymphoma
- (3) Hashimoto's thyroiditis (4) Sjogren's syndrome

Attempt any five questions. Write answer in 150-200 words. Each question carries 16 marks. Answer each question on separate page, after writing Question Number.

1. Tubercular meningitis.

40.

2. Erythrocytic sedimentation rate (ESR)

3. Anti Neutrophil Cytoplasmic Auto-antibody (ANCA).

4. Glycosylated haemoglobin (HbA1c).

5. Reed Sternberg cell.

6. Bence Jones Protein,

7. Tumour markers in serum.

8. Osteoclastoma.

9. Demonstration of amyloid in tissue.

10. Peripheral blood and bone marrow finding of megaloblastic anaemia. **RET/12/Test B/652** (7)

P. T. O.

	RET/12/Test B	652	Pathology			
	Question Booklet No.					
D	(To be filled up by the candidate by blue	/black ball-j	point pen)			
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		the second s	nature of Invigilator)			
	INSTRUCTIONS TO CAN	DIDATES				
1	(Use only <i>blue/black ball-point pen</i> in the space above and Within 10 minutes of the issue of the	d on both sides	of the Answer Sheet)			
	 Within 10 minutes of the issue of the Question Booklet, Please ensure that you have got the missing. In case of faulty Question Booklet, bring it to the notice of the Superintendent/Invigilators immediately to obtain a fresh Question Booklet. 					
2	Card without its envelope.	the Examina	tion Hall except the Admit			
3.	3. A separate Answer Sheet is given. It should not be folded or mutilated. A second Answer Sheet shall not be provided.					
4.	4. Write your Roll Number and Serial Number of the Answer Sheet by pen in the space					
	5. On the front page of the Answer Sheet, write by pen your Roll Number in the space provided at the top, and by darkening the circles at the bottom. Also, wherever applicable, write the Question Booklet Number and the Set Number in appropriate places.					
6.	on OMR sheet and Roll No. and OMR sheet No. on the Question Booklet No. and Set No. (if any)					
7.	taken as unfair means.	by the invigi	lator, otherwise it will be			
	5. This Booklet contains 40 multiple choice questions followed by 10 short answer questions. For each MCQ, you are to record the correct option on the Answer Sheet by darkening the appropriate circle in the corresponding row of the Answer Sheet, by pen as mentioned in the guidelines given on the first page of the Answer Sheet. For answering any five short Answer Questions use five Blank pages attached at the end of this Question Booklet.					
	circle or darken a circle partially, the answer will be treat	er Sheet. If y	ou darken more than one			
	question, leave all the circles in the corresponding row zero marks).	<i>iged.</i> If you blank (such	<i>do not wish to attempt</i> a question will be awarded			
11.	For rough work, use the inner back page of the title of this Booklet.	cover and tl	he blank page at the end			
12.	Deposit both OMR Answer Sheet and Question Booklet	at the end of	the Tract			
	Tou are not permitted to leave the Examination Hall unti	the and of t	1			
14	If a candidate attempts to use any form of unfair m punishment as the University may determine and impose	1 / 1				
Tota	al No. of Printed Pages : 15					

Code No. : 652

Pathology

- 1. Klinefelter syndrome has the following genetic make up :
 - (1) 44 autosomes +xxy
 - (2) 44 autosomes + xo
 - (3) 45 autosomes + xx
 - (4) 45 autosomes + xy

2. Which of the following statement is incorrect related to 'Sickle cell Anaemia'

- (1) It is a autosomal recessive linked disorder
- (2) It is due to a single base mutation of B globulin gene.
- (3) It is inherited in whose one of the parent is carrier and other normal
- (4) It changes shape of RBC from Round to sickle

3. Which property does not belong to cytokines :

- (1) Pleiotropy (2) Redundancy
- (3) Synergy

- (4) Specificity
- **4.** What is the most likely organism in Patient with common variable immunodeficiency presenting with pneumonia :
 - (1) Aspergillus (2) Pneumococcus
 - (3) Mycoplasma (4) CMV

5. Which of the following is a mechanical barrier to conception :

(1) Condom (2) Abortion

(3) Cu-T RET/12/Test B/652 (4) oral pill (2)

- 6. By studying analogous structures we look for :
 - (1) similarities in organ structure
 - (2) similarities in cell make-up
 - (3) similarities in appearance and function but different in structure
 - (4) similarities in appearance that differences in functions
- **7.** Which prediction from the fossil record is in agreement with the theory of evolution ?
 - (1) Unicellular organisms are first found in strata above
 - (2) multicellular fossils.
 - (3) Land animals appear earlier than Land plants in the fossil record. Reptiles appear earlier an insects in the fossil record.
 - (4) Prokaryote fossils appear earlier than eukaryote fossils.
- 8. Ductless glands are known as :
 - (1) Digestive Glands

(3) Endocrine Glands

- (2) Milk Glands
- (4) Exocrine Glands
- **9.** Virus is chemically composed of :
 - (1) Starch and Protein
 - (2) Fat and nucleic acid
 - (3) D.N.A. and lipids
 - (4) Protein and Nucleic Acid
- **10.** Thyroxin hormone is secreted by :
 - (1) Thyroid
 - (3) Adrenal

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(1) 0

(2) Pituitary

(4) Ovary

(3)

P. T. O.

Tail

- Which of the following cell shows more hyperplasia 11.
 - (3) Endometrium (4) Cartilage (2) Muscle (1) Nerve
- Which version is correct about metaplasia ? 12.
 - (1) Metaplasia is due to increase in number of the cells.
 - (2) Metaplasia is due to decrease in size of the cells.
 - (3) It is due to abnormal persistent proliferation of the cells .
 - (4) It is a reversible change in which one differentiated cell is replaced by another cell type.

Which pattern is seen in gangrenous necrosis ? 13.

- (2) Liquefactive necrosis (1) Coagulative necrosis (4) Fibrinoid necrosis
- (3) Caseous necrosis

14.

AN HIGHLON

- Apoptosis is decreased in which of the following conditions :
- (2) Ischemic injury (1) Neurodegenerative diseases
 - (4) Death of viral infected cell

Fatty change in liver is caused by : 15.

(3) Protein malnutrition

(1) Alcohol

(3) Cancer

- (2) Diabetes mellitus
- (4) All of the above

Yellow brown pigment in cardiac muscle in elderly person is due to : 16.

(3) Haemosiderin (4) Lipofuscin (2) Bilirubin (1) Melanin

In which disease leukocytosis is not seen : 17.

- (2) Lobar pneumonia (1) Acute appendictis
- (4) Myocardial infarction (3) Typhoid fever

18. In iron deficiency anemia all the following features are present except :

- (2) Serum ferritin is low (1) Serum iron is low
 - (4) Iron binding capacity is high
- 19. In cyanmethemoglobin method, all hemoglobins except one are converted to cyanmethemoglobin :

(4)

(1) Carboxy hemoglobin (3) Carbamino hemoglobin

(3) HbA2 is increased

- (2) Sulfhemoglobin
- (4) None of the above

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20		
20	20. Dense neurosecretory granules are present i	n cells of which of the following :
	(1) Squamous cell carcinoma (2)	Small cell carcinoma of lung
		Diabetes mellitus
21	pylori infection :	ch is associated with Helicobacter
	(1) Carcinoid tumour (2)	Gastrointestinal stromal tumour
	(3) Linitis plastica (4)	Lymphoma stomach
22	2. Which of the following feature is not present	in chronic ulcerative colitis
	(1) C_{maximum}	Pseudopolyps
		Ulcers in mucosa
23.		
20.	(1) Cimberin (1)	and the second
		Diabetes mellitus
	(3) Skin pigmentation (4)	All of the above
24.	 "Tram Track" appearance of glomerular base. (1) Endocapillary glomerulonephritis (2) Crescentic glomerulonephritis (3) Membranous glomerulonephritis (4) Mesangiocapillary glomerulonephritis 	ment membrane is seen in :
25.	5. Which of the following is not responsible for	oedema in perphrotic syndrome.
		Increased plasma osmotic pressure
	(2) T 1 $(1 + 1)$	Sodium and water retention
26.		type of protein :
27.	Which of the following does not produce hyp	ercoagulability
21		
		Infractionated heparin
RET/		Tissue plasminogen activator
	(5)	Ρ.Τ.Ο.

	28.	What is the site where red infarcts are usually not seen :(1) Ovary(2) Lung(3) Heart(4) Small intestine
	29.	 Which of the following disease does not belong to X-linked recessive disorder ? (1) G6PD deficiency (2) Myotonic dystrophy (3) Wiskott-Aldrich syndrome (4) Lesch-Nyhan syndrome
	30.	Karyotype found in Down's syndrome is : (1) 47XX+21 (2) 47XX+18 (3) 47XX Y (4) 45X
	31.	MHC class II antigen presents antigen to :(1) T helper cells(2) T cytotoxic cells(3) Natural killer cells(4) Macrophages
	32.	 Which test is most important for renal transplant patients : (1) HLA matching between donor and recipient (2) ABO matching between donor and recipient (3) B cell cross match (4) T cell cross match
	33.	Cancer which embolizes through paravertebral plexus is of : (1) Stomach (2) Prostate (3) Breast (4) Ovary
	34.	 (1) Parvovirus 819 (2) Listeria monocytogenes (3) Toxoplasma gondii (4) Nocardia brasiliensis
	35.	 Which of the following biomarker is more specific for diagnosis of myocardial infarction: (1) Troponins T & I (2) CK-MB (3) LDH (4) High leukocyte count
 36. Diagnostic feature of Hashimoto's thyroiditis is : (1) Lymphocytic infiltration between thyroid follicular cells (2) Lymphocytic infiltration and Hurthle cell change (3) Dilated follicles filled with colloid (4) Atrophied thyroid follicle 		
	37	 7. Diabetes mellitus is diagnosed when : (1) Fasting blood sugar is ≥ 126 mg/dl. (2) Postprandial blood sugar is >140 mg/dl (3) Urine sugar test is positive. (4) Fasting blood sugar is ≥ 126 mg/dl on more than one occasion.

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(6)