

2106000102010101

Examination February – March 2024 SECOND MBBS PATHOLOGY (PAPER - I) - LEVEL 1

Instructions:

1. Fill up strictly the following details on your answer book

a. Name of the Examination: SECOND MBBS

b. Name of the Subject: PATHOLOGY (PAPER - I) - LEVEL 1
(OMR)

c. Subject Code No: 2106000102010101

2. Sketch neat and labelled diagram wherever necessary.

3. Figures to the right indicate full marks of the question.

4. All questions are compulsory.

Seat No:

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Seat No:

Student's Signature

SECTION - I

Q.1 Multiple choice questions (MCQs).

20*1=20

(Instruction: Encircle the correct answer)

- Mitochondrial DNA differs from Nuclear DNA in :
 - a) Being linear and open ended
 - b) Having two co copies per somatic cell
 - Monocistronic transcription pattern
 - d) Having Maternal inheritance pattern
- Wear and Tear pigment is:
 - a) Lipofuscin

b) Haemosiderin

c) Melanin

d) Bilirubin





3.	Dystrophic calcification is seen in:		
	a) Hypervitaminosis D	b) Williams Syndrome	
	c) Atheromatous Plaque	d) Renal tubular acidosis	
4.	Bradykinin effects include all the follow	wing EXCEPT:	
	a) Smooth muscle contraction	b) Vasoconstriction	
	c) Increased Vascular permeability	d) Pain	
5.	Wound contraction is mediated by:		
	a) Collagen	b) Elastin	
	c) Myofibroblast	d) Granulation tissue	
6.	Fifth sign of Inflammation " Functiolaesa "was given by :		
	a) Celsus	b) Hunter	
	c) Virchow	d) Cohnheim	
7.	Apoptosis is inhibited by : a) P53	b) -myc	
	c) Ras	d) bcl2	
Q	The most potent antigen presenting cell	for T lymphocytes is:	
0.	a) Dendritic cell	b) NK cell	
	a) Dendritic cell c) Stem cell	d) Macrophage	
9.	Type I hypersensitivity reaction is mediated by:		
	a) IgG antibody	b) IgM antibody	
	c) IgE antibody	d) IgA antibody	
10	Red infarct is seen in all EXCEPT:		
	a) Lung	b) Liver	
	c) Intestine	d) Spleen	



11. Caisson disease is due to:				
a) Fat embolism	b) Air embolism			
c) Thromboembolism	d) Amniotic fluid embolism			
12. Venous thrombus is associated with following feature:				
a) Tendency to embolise	b) Associated with atheroma			
c) Often with turbulence	d) Commonly Mural			
13. Syphilitic involvement of aorta is observed mostly in:				
a) Descending aorta	b) Arch of Aorta			
c) Abdominal Aorta	d) Bifurcation of Aorta			
14. Bombay Phenotype are the individua	Bombay Phenotype are the individuals who:			
a) Lack of H genes and therefore H s	substance.			
b) Possess A and B antigen	b) Possess A and B antigen			
c) Secrete excessive amount of H sub	ostance			
d) Lack C, D, E antigens				
	{ · · · ·			
15. "Tombstone" appearance of cells is seen in which type of Necros				
a) Fibrinoid	b) Coagulative			
c) Liquefactive	d) Fat			
16. Which of the following is malignant	Which of the following is malignant tumour?			
a) Papilloma	b) Melanoma			
c) Adenoma	d) Osteoma			
17. Which one of the following is an exa	imple of Metaplasia?			
a) Changes in skeletal muscles in athelets b) Changes in Cardiac muscles due to hypertension				
				c) Barret's Oesophagus
d) Hormonal changes in breast and u	terus during Pregnancy.			



18. Hypercalcaemia is associated with all of the following tumours



	EXCEPT:		
	a) Small cell carcinoma of the lung		
	b) Squamous cell carcinoma of Lung		
	c) Adult T cell Leukaemia		
	d) Renal cell carcinoma		
	19. Placental alkaline Phosphatase is raised in :		
	a) Teratoma	b) Seminoma	
	c) Endodermal Sinus tumour	d) Lymphoma Testis	
	20. Role of L- selectin in inflammation:		
	a) Rolling	b) Adhesion	
	c) Homing	d) Transmigration	
	(0)		
	SECTION -	II	
0.2	Cook book and a series (cook book to atten	COL.	12
Q.2 Case based question (compulsory to attempt) 45 yrs male, intravenous drug abuser presented with weight loss, or			13
		_	
	candidiasis, generalized lymphadenopathyai opportunistic infections.	id symptoms of multiple	
	opportunistic infections.		
	a) What is your Probable diagnosis?		1
	b) Enumerate the investigations carried out to support the diagnosis?		
	c) Describe the pathogenesis of the disease.		5
	d) Describe the Natural History and stages of	of the Disease	3
			-
Q.3	Long Essay Questions		27
	(Attempt any 3 out of 4)		
	1. Define Apoptosis. Describe the mole	cular mechanisms of Apoptosis.	1+5+3
	Illustrate contrasting features of Apo	ptosis from Necrosis.	



2.	Define Shock. Enumerate the classification and etiology of Shock.	1+2+3+3
	Describe the pathogenesis of Septic Shock. Describe the stages of	
	Shock.	
3.	Define Metastasis. Write three different routes of Metastasis.	1+3+5
	Describe cell biology of Invasion and Metastasis Cascade.	
4.	Describe the pathogenesis of Cell Injury. Write the distinguishing	5+4
	features of Reversible and Irraversible Cell Injury	

SECTION - III

Q.4 (Attempt any 8 out of 10) (5 marks Each)

40

- 1) Difference between Transudate and Exudate.
- 2) Describe healing by First intention (Primary Union)
- Enumerate the Liver Function tests and explain the clinical significance of each.
- 4) Enumerate the contrasting features of initiator and promoter carcinogens.
- 5) Describe Mismatched blood transfusion.
- Difference between Kwashiorkor and Marasmus.
- Define Edema. Write pathophysiology of Edema.
- 8) Clinical features and cytogenetic abnormalities of Down Syndrome.
- Enumerate special stains in Amyloidosis.
- Describe Paraneoplastic syndrome.
