Q.P. Code: 126007 Reg. No.:.....

## First Professional BUMS Degree Regular/Supplementary Examinations March 2025 Munafeul Aza – Paper I (2022 Scheme)

		(2022 00	1101110				
Tin	ne: 3 hrs			Max Marks: 100			
	answers • Indicate t	he question number corre	ibly • Do not leave any k ectly for the answer in the	margin space			
	Answer all parts of a si	ingle question together •	Leave sufficient space bet	tween answers			
1.	<b>Multiple Choice Que</b>	stions		(20x1=20)			
	Answers to MCQ que			continuously on the			
	t two writing sheets (ie						
I.	What percentage of I			1) 000/			
	a) 5%	b) 8%	c) 15%	d) 20%			
II.	Oxygen enters a cell			N A () -			
	a) Diffusion	,	•	d) Active Transport			
III.	ICF volume decrease						
	a) Isotonic	,	c) Hypotonic	d) None			
iv.	Gap junctions are pre						
	a) Choroid plexus	,	, •	d) Smooth muscle			
٧.	ems is:						
	a) Kidneys	, •	c) Buffers system	d) None			
Vİ.	Which is main protein	n of collagen fibers					
	a) Type I collagen b) Type II collagen c) Type III collagen d) Type IV						
vii.	Which organ contains stratified squamous epithelium with keratinization						
	a) Larynx		b) Oesophagus				
	c) Skin		d) Mucosa of oral	cavity			
viii.	Myelin in CNS is formed by:						
	a) Astrocytes	b) Scwann cells	c) Microglia	d) Oligodendrocytes			
ix.	What is a precursor of	cell of macrophages					
	a) Langerhans cell	b) Dendritic	c) Kupffer	d) Monocyte			
Χ.	Crypts of Lieberkühn (intestinal glands) are example of:						
	a) Composed tubular gland		b) Composed acinar gland				
	c) Simple tubular gla	nd	d) Simple acinar gland				
χi.	What is the most common blood type in the general population						
	a) A	b) B	c) AB	d) O			
xii.	What is the maximum time allowed for a blood transfusion to be completed						
	a) 2 hours	b) 4 hours	c) 6 hours	d) 8 hours			
xiii.	Which factor is know	n as prothrombin					
	a) Factor I	b) Factor II	c) Factor III	d) Factor IV			
xiv.	Which of the following structures is found within platelets and is crucial for their shape						
	change during activation						
	a) Microtubules		c) Nucleus	d) Mitochondria			
XV.	Which type of leukoc	,	,	•			
	• •		•	d) B&T lymphocytes			

(PTO)

xvi.	Which of the following is the main site of hematopoiesis in adults						
	a) Liver	b) Bone marrow	c) Spleen	d) Thy	mus		
xvii.	What is the primary de	eterminant of blood	erminant of blood viscosity				
	a) Temperature	b) Blood volume	c) Hematocrit	d) Plas	sma protein		
xviii.	Which of the following	conditions can lead	I to a decrease in ${\mathfrak k}$	olood volur	od volume		
	a) Dehydration	b) Hypervolemia	c) Anaemia	d) Flui	d overload		
xix.	What is the primary fu	rimary function of albumin in the blood					
a) Immune response b) Blood			b) Blood coagula	coagulation			
	c) Transporting oxyge	d) Maintaining oncotic pressure					
XX.	Which form of haemoglobin has a higher affinity for oxygen						
	a) Deoxyhaemoglobin		b) Carboxyhaemoglobin				
	c) Oxyhaemoglobin		d) Methaemoglol	oin			
Short Answer Questions (8x5=40)							
2.	Explain the significance	e of homeostasis					
	Explain the applied physiology of ESR						
	Define and classify Immunity						
5.	Explain the functions of reticulo-endothelial System						
6.	Define baroreceptors and explain their role on heart rate						
7.	Describe stroke volume						
8.	Write down the sources, functions and daily requirement of Vitamin E						
9.	Describe the disorders related to Vitamin B						
Lo	ng Answer Questions				(4x10=40)		
10	Describe the structure	and functions of Eni	thelial tissues		•		
10. Describe the structure and functions of Epithelial tissues 11. Describe coagulation of blood and explain blood clotting factors							
	.Describe toagalation o .Describe foetal circulat	·	biood olotting lact	<i>7</i> 10			
	Evolain in detail about		earadation of chal	ectorol			

13. Explain in detail about the synthesis and degradation of cholesterol

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