3:1 JUL 2024

25676

SEAT NO.

FIRST PROFESSIONAL B.H.M.S. EXAMINATION HUMAN PHYSIOLOGY AND BIOCHEMISTRY PAPER - I SUBJECT CODE: HOM UG-PB

TIME: 3 HOURS

INSTRUCTIONS: 1. ATTEMPT ALL THE QUESTIONS.

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TOTAL MARKS: 100

2. DRAW DIAGRAMS WHEREVER NECESSARY. 3. FIGURES IN RIGHT INDICATES FULL MARKS

Q - 1	Mul	Multiple Choice Questions. (10)		
	(1)	The following statements are true about plasma membrane, except,		
		[A]Consist of bilayer of phospholipids	[B]Containglycoproteins	
		[C] Isreadilypermeabletowater	[D]Isreadilypermeableto rons	
	(2)	Genetic material is present in another organelle apart from nucleus		
		[A] Centrosome	[B]Lysosome	
		[C] Mitochondria	[D]Golgiapparatus	
	(3)	Decrease in colloid osmotic pressure lea	ads to	
		[A] Dehydration	[B]Edema	
		[C] Nochangeinbodyfluid	[D]Acidosis	
(4) The condition "Respiratory acidosis" means,		The condition "Respiratory acidosis" m		
		[A] IncreasePCo ₂	[B]Decrease PCO ₂	
		[C] Increase serum Lectic acid	[D]Increase concentration of HCo3	
(5) Which one of the following Ig has the		Which one of the following Ig has the la	e largest concentration in serum	
		[A] Ig A	[B]Ig D	
		[C] Ig G	[D]Ig M	
	(6)	First heart sound is produced due to		
		[A] Closure of semilunar valve	[B]Closure of AV valve	
		[C] Opening of semilunar valve	[D]Opening of AV valve	
	(7) Tidal volume in a normal man at rest is			
		[A] 0.5 L	[B]2.0 L	
	765000	[C] 1.0 L	[D]1.5L	
	(8)	Facultative reabsorption of water from renal tubules require,		
		[A] Oxytocin	[B] Aldosterone	
		[C] Cortisol	[D]ADH	
	(9)	present in which tayer of epidermis,		
		[A] Stratum corneum	[B]Stratum lucidum	
		[C] Stratum granulosum	[D]Stratum spinosum	
	(10)	Sarcomeres are present in		
		[A]Skeletal & cardiac muscle	[B] Smooth muscle	
		[C]Neuron	[D]Nephron	

Q-2 Write Short Answers

- (1) Endoplasmic reticulum
- (2) Osmosis
- (3) Innate immunity
- (4) ECG leads
- (5) Dead space
- (6) Juxtaglomerular apparatus
- (7) Function of skin
- (8) Sarcomere

Q-3 Write Long Answers

(50)

- 1. Explain erythropoiesis in detail [Definition, Stages, Factors]
- 2. Define haemostasis. which are the ways through haemostasis achieved? Describe in detail platelet plug formation.
- 3. Define cardiac cycle. Enumerate the different phases of a cardiac cycle. Describe diastolic phase of cardiac cycle in detail.
- 4. Describe in detail nervous regulation of the respiration.
- 5. Define GFR. Its normal value. Explain factor affect the GFR.