1 3 MAR 2027.

10194 FIRST B.H.M.S. EXAMINATION

PHYSIOLOGY & BIOCHEMISTRY PAPER-I

Time: 3 hours		Total Marks: 100
I. ANSWER EACH QUESTION ON NEW PAGE.		Total Marks. 100
	2. DRAW DIAGRAMS WHEREVER NECESSARY.	
	SECTION - I	
0 1	D 1	
Q-1	Describe arterial blood pressure under following heading;	15
	1. Definition 2. Normal values 3. Types 4. Nervous regulation	
0 1	OR	
Q-1	Write short notes.	15
	1. Windkessel effect	
	2. Heart sounds	
	3. Diastolic events of cardiac cycle	
$\mathbf{Q} - 2$	Describe hemoglobin under following headings;	15
	1. Definition 2. Normal values 3. Types 4. Derivatives 5. Functions in detail	13
	OR	
Q-2	Write short notes.	1.7
	1. Extrinsic pathway for formation of prothrombin activator	15
	2. Cell mediated immunity	
	3. Bone marrow	
Q-3	Write short notes (any four)	
ν .	1. Lymph node	20
	2. Reticulo-endothelial system	
	Reticulo-endothenal system Pacemaker potential	
	4. Secondary active transportation	
	5. DNA	
	6. Anemia	
	SECTION - II	
Q – 1	Explain in detail transport of carbon dioxide (C _{O2}) in blood.	
~ I		15
Q-1	OR Write short notes.	
Q - I		15
	Chemical regulation of respiration	
	2. O ₂ -Hb dissociation curve	
0 1	3. Chyne-stroke respiration	
Q-2	Give an account of physiology of micturition in detail	15
	OR	
Q-2	Write short notes.	15
	1. Juxtaglomerular apparatus	
	2. H ⁺ secretion through renal tubules	
	3. Mechanism of reabsorption of water through renal tubules	
Q-3	Write short notes (any four)	20
	1. Nephron	20
	2. Lung compliance	
	3. Functions of skin	
	4. Difference between skeletal & smooth muscle	
	5. Difference between heat gain & heat loss center	
	6. Saltatory conduction	