

DBZ-21259]

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Seat No.

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First Year B. D. S. Examination July - 2022

July - 2022 Di : 1

Physiology

(Biochemistry, Nutrition and Dietetics)

Time : $2\frac{1}{2}$ Hours] [Total Marks: 70 Instructions: (1) Write each section in separate answer book. **(2)** Draw figure whenever necessary. (3)Figures on right indicates marks. SECTION - I 1 Discuss the origin and spread of cardiac impulse. 10 OR Discuss the process of hemostasis. 1 10 2 Write short notes: (any two) 10 (a) Excitation- contraction coupling (b) Surfactant Peristalsis (c) 10 3.1 Write short notes: (any two) Oxytocin (b) Hormonal Contraceptives (c) Synapse Answer in onesentence : (any five) 5 (a) Define cardiac output. (b) What is accommodation in eye? Define Haldane's effect. Define Glomerular Filtration Rate and give its normal (d) value. Parasympathetic system is called nerve of tomorrow Why cardiac muscle cannot be tetanized?

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SECTION - II

4	Describe briefly: (Any Two)		10
	(1)	Biological role of Pyridoxal phosphate (Vita. B ₆) in our body and its deficiency manifestation.	
	(2)	Enumerate Acute Phase Proteins and their functions.	
	(3)	Explain enzyme inhibitions with its clinical examples.	
5	Write Short Notes : (Any Two)		10
	(1)	Function of Calcium with factors regulating blood calcium level in our body.	
	(2)	Bilirubin anabolism and catabolism.	
	(3)	Water regulation in our body.	
6	Write Short Notes : (Any Five)		10
	(1)	Enumerates lipotropic factors.	
	(2)	Enumerate Different types of RNA and their function.	
	(3)	Why vita C deficiency causes Anemia?	
	(4)	Rancidity of Fat.	
	(5)	What is telomere and telomerase?	
	(6)	How ammonia is detoxified in our body?	
7	Answer the following: (Any Five)		5
	(1)	Clinical significance of blood Cholesterol estimation.	
	(2)	What is Glycemic Index?	
	(3)	Why fluoride vacuette is used for plasma glucose estimation?	
	(4)	What is acquired immunity?	
	(5)	Function of Vitamin E.	
	(6)	What is plasma Osmolality?	