

MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST BDS DEGREE EXAMINATION - JANUARY 2018 SUBJECT: GENERAL HUMAN PHYSIOLOGY AND BIOCHEMISTRY Wednesday, January 17, 2018 (14.15 - 17.00 Hrs.)

SECTION - A: GENERAL HUMAN PHYSIOLOGY (30 MARKS)

Ess	ay:	
1A)	Define blood pressure. Give normal value. Explain the role of baroreceptors in blood pressure regulation. $(1+1+4=6 \text{ marks})$	(6)
1B)	Draw a neat labelled diagram of pain pathway from face.	(4)
2. 2A)	Short notes on: Define the following terms and give their normal value. i) Dead space ii) Alveolar ventilation iii) Compliance iv) Tidal volume (1+1+1+1 = 4 marks)	(4)
2B.		(4)
2C.	List the functions of saliva. Explain its regulation.	(4)
2D.	8	(2)
2E.	 II) Define the following: i) Anosmia ii) Presbyopia iii) Ageusia iv) Myopia Draw a neat labelled diagram of neuromuscular junction. Explain briefly neuromuscular transmission. (2+2 = 4 marks) 	(2) (4)
SECTION - B : BIOCHEMISTRY (30 MARKS)		
3A) 3B)		(5) (5)
4. 4A) 4B) 4C) 4D)	Explain the followings: Proteolytic enzymes of pancreas. Structure of collagen. Protein energy malnutrition. Structure of tRNA.	(3) (3) (3) (3)
5. 5A) 5B) 5C) 5D)	Write briefly on: Niacin deficiency. Specialized compounds formed from glycine. Iron absorption. Activation of Vitamin D.	(2) (2) (2) (2)

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