## GANPAT UNIVARSITY B.Tech. Semester III (BM&I), Regular Examination NOV-DEC 2010 BME- 304: HUMAN PHYSIOLOGY AND ANATOMY

Time:- 3 Hours			·ks:- /0
1. 2. 3. 4.	3. Conventional terms / notations are used.		
		SECTION-I	
Q-1	(a) (b)	Discuss three phases of menstrual cycle.  Define: Osmosis  Active transport	[12]
	(c)	Iodine trapping Gluconeogenesis Write about characteristics of cell.  OR	[12]
Q-1	(a)	Write the disorders of growth hormone & thyroid stimulating	• ,
		hormone. Write in detail Haemopoesis with neat diagram.	
	(b) (c)	Describe the interaction between ascending & descending limbs.	
0.1			[12]
Q-2	(a) (b) (c)	Compare and contrast the three types of Muscle tissue. Write a short note on synovial joint. Discuss the phases of mitosis with neat figure.  OR	
Q-2			[12]
Q-2	(a) (b)	Discuss the disorders related to White Blood Cells.  Define Osmosis & Osmotic pressure & state the conditions that need for osmosis to occur.	led
	(c)	Explain the role of Oxytocin in positive feedback mechanism.	
Q-3	(a) (b)	of Pancreatic islets and effects of that disorder on other organs.  Describe the different types of epithelial tissue and state their location.	
	(e)	in the body.  Describe the pressures that affect the formation of glomerular filtration.	

## **SECTION-II**

Q-4 Write in detail on Cerebrum. Describe the structure of neuro muscular junction & How does (b) transmission of impulse take place?. [12] Q-4 Describe the structure of pericardium. (a) Describe the properties of heart. (b) [12] Q-5 (a) Write a short note on gaseous exchange. (b) Describe lungs in detail. OR [12] Q-5 Describe the structure of spinal cord in detail. (a) Write a short note on reflexes. **(b)** Q-6 Write short notes: (Any three:) [11] Larynx (a) Heart Rate (b) Hypothalamus (c) Physiology of smell

END OF PAPER

(d)