GUJARAT TECHNOLOGICAL UNIVERSITY B. Pharm. – SEMESTER – I • EXAMINATION – WINTER • 2014

	•	ect Code: 2210004 Date: 03-01-2015	
	Time	 ect Name: Human Anatomy Physiology : 10:30 am - 01:30 pm Total Marks: 80 actions: Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 	
Q.1	(a) (b) (c)	 Explain following terms Vesicle mediated transport Nutritional deficiency anaemia Nucleus Draw well labeled diagram of basic structural unit of body. Write about nonspecific defense mechanism of body. 	06 05 05
Q.2	(a) (b) (c)	Enumerate bones of appendicular skeleton. Note on histology of bones. Explain neuromuscular junction. Note on plasma.	06 05 05
Q.3	(a) (b) (c)	Give details of following 1. Mitochondria 2. Golgi apparatus 3. Endoplasmic reticulum Draw well labeled diagram of human heart. Discuss properties of cardiac smooth muscle.	06 05 05
Q.4	(a) (b) (c)	Write anatomy and physiology of white blood cell. Describe formation, circulation and function of lymph. Explain simple epithelial tissue.	06 05 05
Q.5	5 (a) (b) (c)	Note on cardiac output. Differentiate between passive and active transport. Give the details of conduction pathway of heart.	06 05 05
Q. 6	6 (a) (b) (c)	Draw neat and labeled diagram of synovial joint. Write various types of movement of synovial joint. Discuss various phases of gastric secretion. Note on ECG.	06 05 05
Q.7	(a) (b) (c)	Explain about organ of metabolism. Describe in detail about rheumatoid arthritis and hypertension. Give function of skeleton and discuss about bone marrow.	06 05 05
