Seat No.: Enrol	ment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY B. Pharm. SEMESTER- I EXAMINATION SUMMER-2016

Subject Code: 2210004 Date: 30/05/2016

Subject Name: Human Anatomy Physiology

Time: 02:30 pm – 05:30 pm Total Marks: 80

Instructions:

1. Attempt any five questions.

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	Define Homeostasis. Explain negative feedback system by giving suitable example.	06
	(b) (c)	Explain in detail cell cycle and its significance. Explain various transport mechanisms across cell membrane.	05 05
Q.2	(a) (b) (c)	Classify Tissues. Explain epithelial tissues in detail. Classify joints. Explain Synovial joint in detail. Explain in brief: Osteoporosis, Arthritis, Gout.	
Q.3	(a) (b) (c)	Explain in detail physiology of muscle contraction. Short note on neuromuscular junction. Explain in brief: Cardiac arrhythmias, Angina pectoris, Congestive Cardiac Failure	06 05 05
Q.4	(a) (b) (c)	Explain various mechanisms of hemostasis. Short note on spleen. Explain Renin Angiotensin Aldosterone System and its significance.	
Q.5	(a) (b) (c)	Explain Hemopoiesis and life cycle of red blood cell. Short note on Electrocardiogram. Define Cardiac output. Explain various factors affecting cardiac output.	
Q. 6	(a) (b) (c)	Classify Acquired immunity. Explain them in detail. Short note on Salivary Glands. Define Anaemia. Classify it. Explain all classes in brief.	
Q.7	(a) (b)	Explain physiology of Pancreas. Draw a labeled diagram of skull showing all parts of it and explain any two bones of skull.	06 05
	(c)	Explain the process of protein synthesis.	05
