Seat No.: _____ Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. - SEMESTER - I • EXAMINATION - SUMMER • 2014

	Difficient SEMESTER		SCIVILIZIO 20
Subject	Code: 2210004	Da	ite: 13-06-2014
Subject	Name: Human Anatomy	Physiology	
Time: 02:30 pm - 05:30 pm		T	otal Marks: 80
Instruction	ons:		
1.	Attempt any five questions.		
2.	Make suitable assumptions	wherever necessary.	

3. Figures to the right indicate full marks.

Q.1	(a) (b) (c)	Explain following diseases: Cardiac arrhythmias, Leukemia, Hypertension. Discuss composition and function of gastric juice. Write a note on Nervous tissue.		
Q.2	(a) (b)	Enlist different types of immunity. Explain acquired immunity. Classify transport mechanism across cell membrane. Explain each of them with suitable examples.	06 05	
	(c)	What is Blood Pressure? Discuss its significance and methods of measurement.	05	
Q.3	(a) (b) (c)	What are the various phases of Cell cycle? Explain in detail Mitotic phase. Define anemia? Discuss the different types of anemia. Draw labeled diagram of digestive system and enumerate functions of each of the labeled parts.		
Q.4	(a)	Discuss different types of Synovial joints with appropriate examples for each type.	06	
	(b) (c)	Explain the process of erythropoesis and role of erythropoietin. Write a short note on spleen.	05 05	
Q.5 (a)	(a)	Describe the structure of Cell membrane with appropriate diagram. Give functions of Cell membrane.		
	(b) (c)	Discuss the Renin Angiotensin System. Write a short note on ECG.	05 05	
Q. 6	(a) (b)	What is blood? Enumerate various components and functions of blood. Differentiate epithelial tissues and connective tissues. Describe in detail the connective tissues.	06 05	
	(c)	Write a note on coronary and pulmonary circulation.	05	
Q.7	(a)	Enumerate various clotting factors and explain in detail mechanism of coagulation.	06	
	(b)	Explain the Physiology of Muscle contraction.	05	
	(c)	Write composition and function of Lymph.	05	
