Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM. - SEMESTER-I • EXAMINATION – WINTER -2021

•	Subject Code: BP101TP Date:21/04/2022 Subject Name: HUMAN ANATOMY AND PHYSIOLOGY-I				
Time:10:30am to 01:30pm Instructions: 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 different phases of cell division with appropriate diagram. Write composition and functions of blood. Write a note on blood grouping and its significance.	06 05 05		
Q.2	(a) (b) (c)	Explain intracellular signaling pathway. Give detailed account on connective tissues. Define the following terms: i) Cataract ii) Myocardial infarction iii) Leukaemia iv) Anemia v) Mitochondria	06 05 05		
Q.3	(a) (b) (c)	Explain the physiology of muscle contraction. Write functions of skin in detail with a labeled diagram. Describe various types of synovial joints.	06 05 05		
Q.4	(a) (b) (c)	Explain in detail the mechanism of blood clotting. Write composition and functions of lymph. Differentiate sympathetic and parasympathetic nervous system.	06 05 05		
Q.5	(a) (b) (c)	Enumerate bones of appendicular skeletal system and write its functions in brief. Describe the regulation of blood pressure. Write a note on reticulo endothelial system.	05		
Q. 6	(a) (b) (c)	Explain events of cardiac cycle in detail. Define cell. Explain the basic structure of cell with schematic diagram. Write a note on electrocardiogram.	06 05 05		
Q.7	(a) (b) (c)	Describe various transport mechanisms across the cell membrane. Describe the physiology of hearing. Enumerate cranial nerves and write its function of each.	06 05 05		
