

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph. - SEMESTER-I • EXAMINATION – SUMMER -2022

Subject Code: BP101TP**Date: 02/09/2022****Subject Name: Human Anatomy and Physiology-I****Time: 10:30AM TO 01:30PM****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 and describe in detail negative feedback mechanism	06
	(b) Differentiate sympathetic and parasympathetic nervous system	05
	(c) Draw and label the diagram of Heart	05
Q.2	(a) Describe physiology of muscle contraction	06
	(b) Draw and label the diagram of eye	05
	(c) Define the following terms: 1) Phagocytosis; 2) Pinocytosis; 3) Exocytosis; 4) Transcytosis; 5) Osmosis	05
Q.3	(a) Write a note on blood clotting	06
	(b) Describe in detail regulation of blood pressure	05
	(c) Enlist joints of the skeleton. Discuss types of synovial joints	05
Q.4	(a) Write a short-note on cardiac cycle	06
	(b) Discuss types of joints movements and its articulation	05
	(c) Write a note on blood-group	05
Q.5	(a) Write a note on cell-cycle	06
	(b) Describe structure, circulation and functions of spleen	05
	(c) Discuss in detail types of anemia and its diagnosis	05
Q.6	(a) Write a note on electrocardiogram	06
	(b) Draw and label the diagram of skin	05
	(c) Describe type, origin and functions of cranial nerves	05
Q.7	(a) Explain the given terminologies: 1) Angina Pectoris	06
	2) Congestive cardiac failure	
	3) Palpitation	
	4) Haemorrhage	
	5) Ductus Arteriosus	
	6) Cardiac arrhythmia	
	(b) Describe physiology of hearing.	05
	(c) Classify types of tissue and explain epithelial tissue in detail	05
