

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER– 1 EXAMINATION – WINTER -2024

Subject Code: BP101TP**Date: 11/02/2025****Subject Name: Human Anatomy and Physiology I****Time: 10.30 AM TO 01.30 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 cell. Draw neat and clean diagram of cell. | 06 |
| | (b) Write a brief note on cardiac cycle. | 05 |
| | (c) Explain in brief about blood group. | 05 |
| Q.2 | (a) Write a detail difference between parasympathetic and sympathetic system. | 06 |
| | (b) Define homeostasis. Explain positive feedback system. | 05 |
| | (c) Classify tissue. Explain in brief about nervous tissue. | 05 |
| Q.3 | (a) Draw labeled diagram of skin and enlist its functions. | 06 |
| | (b) Explain briefly on physiology of muscle contraction. | 05 |
| | (c) Write composition and function of lymphatic system. | 05 |
| Q.4 | (a) Explain role of Renin angiotensin system in Blood pressure regulation. | 06 |
| | (b) Write brief note on physiology of equilibrium. | 05 |
| | (c) Write brief note on cranial nerves. | 05 |
| Q.5 | (a) Classify types of joints. Explain briefly about synovial joints. | 06 |
| | (b) Write a short note on neuromuscular junction. | 05 |
| | (c) Write brief note on different forms of cell signaling pathways. | 05 |
| Q. 6 | (a) Write detail note on mechanism of coagulation. | 06 |
| | (b) Draw well labeled diagram of Eye. | 05 |
| | (c) Write short note on ECG. | 05 |
| Q.7 | (a) Explain mechanism of transport across cell membrane. | 06 |
| | (b) Write brief note on Reticulo-endothelial system. | 05 |
| | (c) Define the following terms. | 05 |
| | i) Hemophilia ii) Angina pectoris iii) Glaucoma iv) Anemia | |
| | v) Posterior | |
