

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph SEMESTER-I EXAMINATION – SUMMER -2023

Subject Code: BP101TP**Date: 08/08/2023****Subject Name: HUMAN ANATOMY AND PHYSIOLOGY I****Time: 02:30 PM TO 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.

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| Q.1 | (a) Explain giving examples positive and negative feedback mechanisms. | 06 |
| | (b) Write in detail mechanisms of clotting and fibrinolysis. | 05 |
| | (c) Classify WBCs. Mention functions of each class of WBCs. | 05 |
| Q.2 | (a) Write a note on anaemia. | 06 |
| | (b) Explain the structure and functions of skin with a neat labelled diagram. | 05 |
| | (c) Write a note on transport mechanism involved across cell membrane by giving suitable examples. | 05 |
| Q.3 | (a) Explain the process of “Cell Division”. | 06 |
| | (b) Write a note on structure and functions of bone. | 05 |
| | (c) Explain the physiology of muscle contraction. | 05 |
| Q.4 | (a) Compare and contrast skeletal, smooth and cardiac muscles. | 06 |
| | (b) Explain composition of Blood. Add a note on functions of Blood. | 05 |
| | (c) Draw a neat labelled diagram of nerve cell. | 05 |
| Q.5 | (a) Write in detail physiology of hearing. | 06 |
| | (b) Write the difference between parasympathetic and sympathetic system. | 05 |
| | (c) Write a note on blood groups and Rh factor along with its significance. | 05 |
| Q. 6 | (a) Draw a well labelled diagram of eye ball. | 06 |
| | (b) Enumerate different types of joints. Write a note on synovial joints. | 05 |
| | (c) Write composition, functions and circulation of Lymph. | 05 |
| Q.7 | (a) Draw a neat labelled diagram of conduction system of heart. | 06 |
| | (b) Explain Blood pressure. Add a note on how it is regulated by renin angiotensin system. | 05 |
| | (c) Explain the following terms: | 05 |
| | Myocardial infarction, Glaucoma, Myopia, Hypertension, Leukaemia | |
