

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM. – SEMESTER I – • EXAMINATION – SUMMER-2018

Subject Code: BP101TP**Date: 01/05/2018****Subject Name: Human Anatomy and Physiology I****Time: 02:30PM TO 05:30PM****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) | Define Homeostasis. Explain negative feedback system by giving suitable example. | 06 |
| | (b) | Classify Tissues. Explain epithelial tissues in detail. | 05 |
| | (c) | Write short note on protein synthesis. | 05 |
| Q.2 | (a) | Write in detail about the different transport mechanisms across cell membrane. | 06 |
| | (b) | Explain the blood coagulation process. | 05 |
| | (c) | Explain ABO system of blood. | 05 |
| Q.3 | (a) | Explain the anatomy of the heart with labelled schematic diagram. | 06 |
| | (b) | Write a short note on cardiac cycle. | 05 |
| | (c) | Define blood pressure. Write a note on renin angiotensin system. | 05 |
| Q.4 | (a) | Enlist different types of joints. Write a note on synovial joints. | 06 |
| | (b) | Explain anatomy and physiology of spleen. | 05 |
| | (c) | Explain physiology of muscle contraction. | 05 |
| Q.5 | (a) | Explain the process of "Cell division" | 06 |
| | (b) | Write composition, function and circulation of Lymph. | 05 |
| | (c) | Write a note on structure and function of bone. | 05 |
| Q. 6 | (a) | Draw a labeled diagram of eye-ball. | 06 |
| | (b) | Describe physiology of hearing with suitable diagram. | 05 |
| | (c) | Write a note on general functions of blood. | 05 |
| Q.7 | (a) | Explain following terms
Myocardial infarction, Glaucoma, Myopia, Leukaemia, Hypertension, Arthritis | 06 |
| | (b) | Draw a labeled diagram of skull showing all parts of it and explain any two bones of skull. | 05 |
| | (c) | Write difference between parasympathetic and sympathetic system. | 05 |
