

Seat No.: _____

Enrolment No. _____

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.

- 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 **06**
Myocardial infarction, Glaucoma, Myopia, Leukaemia, Hypertension, Arthritis
(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**
