

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm - SEMESTER- I • EXAMINATION – WINTER-2019

Subject Code: BP101TP

Date: 27/12/2019

Subject Name: Human Anatomy and Physiology-I

Time:10:30 AM – 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 tissue. Explain different types of epithelial tissue. **06**
(b) Describe different types of WBCs. **05**
(c) Draw the neat and clean labelled diagram of a cell. **05**
- Q.2** (a) What is cell cycle? Write a note on it. **06**
(b) Compare and contrast parasympathetic and sympathetic nervous system. **05**
(c) Explain physiology of hearing along with labelled diagram. **05**
- Q.3** (a) Write a note on synovial joints with its labelled diagram **06**
(b) Explain the mechanism of blood clotting. **05**
(c) Draw a neat and clean labelled diagram of eye. **05**
- Q.4** (a) Explain the process of Erythropoiesis in detail. **06**
(b) Explain physiology of muscle contraction. **05**
(c) Write a note on cranial nerves. **05**
- Q.5** (a) Discuss structure and functions of skin. **06**
(b) Draw a neat and labelled diagram of internal structure of heart. **05**
(c) Describe the composition, formation and function of Lymph. **05**
- Q. 6** (a) Explain methods of measurement of blood pressure. Write a note on Renin Angiotensin System. **06**
(b) Differentiate skeletal and visceral muscular tissue. **05**
(c) Define and calculate cardiac output. Explain factors affecting it. **05**
- Q.7** (a) Explain the following terms: 1) Homeostasis, 2) Neuromuscular Junction, 3) Glaucoma, 4) Arthritis, 5) Arrhythmia, 6) Haemolysis **06**
(b) Describe various transport mechanism across the cell membrane. **05**
(c) Explain different types of anemia. **05**
