

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM – SEMESTER – 1- EXAMINATION – WINTER - 2018

Subject Code: BP101TP

Date: 01/01/2019

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) Discuss in detail structure and Function of skin. **06**
(b) Define Homeostasis. Write in detail about Negative Feedback mechanism. **05**
(c) Short note on ABO system. **05**
- Q.2** (a) Explain the mechanism of blood Coagulation. **06**
(b) Classify Joint. Write in detail Synovial Joint. **05**
(c) Draw neat and clean figure of eye with nomenclature. **05**
- Q.3** (a) Write a note on physiology of Muscle Contraction. **06**
(b) Write the detail steps of RBC synthesis. **05**
(c) Classify Epithelial tissue. Write in detail Simple epithelium. **05**
- Q.4** (a) Write in detail anatomy of Heart with Figure. **06**
(b) Discuss in detail Composition, Circulation and Function of Lymph. **05**
(c) Write a note on Internal Ear. **05**
- Q.5** (a) Write down type, structure, composition and function of Bone. **06**
(b) Short note on Cell Division. **05**
(c) Explain in detail about Anemia. **05**
- Q. 6** (a) Explain various phases of Cardiac cycle. **06**
(b) Draw figure of Cell. Discuss in detail Cell membrane. **05**
(c) Define following term with example (Any five) **05**
1. Anatomy 2. Cataract 3. Arrhythmia
4. Osteoporosis 5. Leukemia 6. Paracrine signaling
- Q.7** (a) Classify Nervous system. Differentiate Sympathetic and parasympathetic nervous system. **06**
(b) Enlist the types of Muscular tissue. Differentiate Smooth Muscle and Cardiac muscle. **05**
(c) Short note on Electrocardiogram. **05**
