

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.**

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|-------------|------------|--|-----------|
| 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 |
