

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

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