

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.

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