

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.PHARM - SEMESTER- 1 EXAMINATION – SUMMER -2019**

**Subject Code: BP101TP****Date: 28-05-2019****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) Write a short note on cardiac cycle.  | <b>06</b> |
|            | (b) Discuss about human skin and draw clean and neat diagram of it.             | <b>05</b> |
|            | (c) Classify joints and explain synovial joints.                                | <b>05</b> |
| <b>Q.2</b> | (a) Explain structure of bone.  | <b>06</b> |
|            | (b) Write a short note on erythropoiesis.                                       | <b>05</b> |
|            | (c) Discuss and draw clean and neat diagram of spleen.                          | <b>05</b> |
| <b>Q.3</b> | (a) Differentiate between sympathetic and parasympathetic nervous system.       | <b>06</b> |
|            | (b) Explain structure of retina with clean and neat diagram.                    | <b>05</b> |
|            | (c) Write a short note on physiology of hearing.                                | <b>05</b> |
| <b>Q.4</b> | (a) Explain anatomy of human heart.   | <b>06</b> |
|            | (b) Give detailed account on nervous tissue.                                    | <b>05</b> |
|            | (c) Short note on simple epithelial tissue.                                     | <b>05</b> |
| <b>Q.5</b> | (a) Explain structure of cell membrane with clean and neat diagram.             | <b>06</b> |
|            | (b) Write a short note on blood groups.   | <b>05</b> |
|            | (c) Short note on synthesis, storage, release and metabolism of nor adrenaline. | <b>05</b> |
| <b>Q.6</b> | (a) Write anatomy and physiology of tongue.                                     | <b>06</b> |
|            | (b) Write about hypertension, angina pectoris and congestive heart failure.     | <b>05</b> |
|            | (c) Discuss about blood clotting.   | <b>05</b> |
| <b>Q.7</b> | (a) Explain internal ear with diagram.  | <b>06</b> |
|            | (b) Write a short note on anemia.   | <b>05</b> |
|            | (c) Discuss anatomy of lymph node with clean and neat diagram.                  | <b>05</b> |

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