

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B. Ph.- SEMESTER- II -EXAMINATION – SUMMER – 2018**

**Subject Code: BP201TP****Date:19/05/2018****Subject Name: HUMAN ANATOMY AND PHYSIOLOGY II****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 the physiology of urine formation.  | <b>06</b> |
|             | (b) | Write a note on neuron fiber with properly labeled figure.  | <b>05</b> |
|             | (c) | Explain digestion of carbohydrates and fat from various parts of gastrointestinal tract.                | <b>05</b> |
| <b>Q.2</b>  | (a) | Write in detail acid production in stomach and its regulation.  | <b>06</b> |
|             | (b) | What are the functions of cerebrum? Enlist all cranial nerves.  | <b>05</b> |
|             | (c) | What are inherited diseases? Explain the pattern of inheritance.  | <b>05</b> |
| <b>Q.3</b>  | (a) | What is external and internal respiration? Explain with diagram.  | <b>06</b> |
|             | (b) | Explain the regulation and functions of hormone secreted by adrenal glands.                             | <b>05</b> |
|             | (c) | Write the steps of protein synthesis in a cell.   | <b>05</b> |
| <b>Q.4</b>  | (a) | Write short note on spermatogenesis.  | <b>06</b> |
|             | (b) | Name the hormones secreted by pituitary glands. Detail the disorders related to pituitary glands.       | <b>05</b> |
|             | (c) | Write detailed note on reflex activity.   | <b>05</b> |
| <b>Q.5</b>  | (a) | Write in detail pregnancy and parturition.  | <b>06</b> |
|             | (b) | Explain the role of kidney and lungs in acid base balance.  | <b>05</b> |
|             | (c) | Write short note on parathyroid glands.   | <b>05</b> |
| <b>Q. 6</b> | (a) | Draw neat labeled diagram of male reproductive system.  | <b>06</b> |
|             | (b) | Explain anatomy and functions of pancreas with associated disorders.                                    | <b>05</b> |
|             | (c) | What is the importance of meninges and CSF?   | <b>05</b> |
| <b>Q.7</b>  | (a) | Write the functions of liver and disorders related to it.   | <b>06</b> |
|             | (b) | Explain the following terms: diabetes insipidus, virilism, cushing syndrome, micturition, synapse, BMR. | <b>05</b> |
|             | (c) | Describe artificial respiration and resuscitation method.   | <b>05</b> |