

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.PHARM – SEMESTER – 2- EXAMINATION –WINTER - 2018**

**Subject Code:BP201TP**

**Date: 07/12/2018**

**Subject Name: Human Anatomy and Physiology II**

**Time:02:30 PM TO 05:30 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) Explain regulation and physiology of respiration.                                      | <b>06</b> |
|             | (b) Physiology of urine formation in detail.   | <b>05</b> |
|             | (c) Explain neurohumoral transmission.   | <b>05</b> |
| <b>Q.2</b>  | (a) Explain various phases of acid secretion in stomach.                                   | <b>06</b> |
|             | (b) Explain hormone secreted from gonads.  | <b>05</b> |
|             | (c) Explain action potential in neuron.  | <b>05</b> |
| <b>Q.3</b>  | (a) Explain adrenal gland and give detail about hormone secreted from it.                  | <b>06</b> |
|             | (b) Explain protein synthesis in detail.   | <b>05</b> |
|             | (c) Define terms: Dementia, ADH, Emphysema, Vital Capacity, Acromegaly                     | <b>05</b> |
| <b>Q.4</b>  | (a) Draw labelled diagram of female reproductive system and explain it.                    | <b>06</b> |
|             | (b) Explain roll of kidney in acid base balance.   | <b>05</b> |
|             | (c) Note on BMR and give use of creatinine phosphate.                                      | <b>05</b> |
| <b>Q.5</b>  | (a) Define hormones and explain how it maintains body equilibrium.                         | <b>06</b> |
|             | (b) Note on menstrual cycle.   | <b>05</b> |
|             | (c) Explain Angiotensin system.  | <b>05</b> |
| <b>Q. 6</b> | (a) Classify nervous system and give idea about autonomic nervous system.                  | <b>06</b> |
|             | (b) Explain Spermatogenesis.   | <b>05</b> |
|             | (c) Note on non-excitatory nerve cells.  | <b>05</b> |
| <b>Q.7</b>  | (a) Explain synthesis, circulation and contain of CSF.                                     | <b>06</b> |
|             | (b) Enlist and explain enzyme secreted by GIT.   | <b>05</b> |
|             | (c) Define terms: Cushing syndrome, Diabetes insipidus, fatty liver, Asthma, Renal calculi | <b>05</b> |

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