

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

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

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BPHARM – SEMESTER II • EXAMINATION – WINTER - 2013**

**Subject code: 220004**

**Date: 24-12-2013**

**Subject Name: Anatomy Physiology and Health Education - 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) Describe about the mechanism of respiration.  | <b>06</b> |
|             | (b) Write about the physiology of vision.   | <b>05</b> |
|             | (c) Write a note on electroencephalogram.   | <b>05</b> |
| <b>Q.2</b>  | (a) Enlist the name of endocrine glands and give the physiological role of adrenaline in body.  | <b>06</b> |
|             | (b) Differentiate the sympathetic nervous system and parasympathetic nervous system.  | <b>05</b> |
|             | (c) Write a note on chloride shift.   | <b>05</b> |
| <b>Q.3</b>  | (a) Discuss about the physiology of urine formation.  | <b>06</b> |
|             | (b) Define the following terms.<br>1) Internal respiration 2) External respiration<br>3) Sensory nerve 4) Motor nerves 4) Pulmonary circulation | <b>05</b> |
|             | (c) Explain the terms.<br>1) neurotransmitters 2) hormones  | <b>05</b> |
| <b>Q.4</b>  | (a) Draw a labelled diagram of brain and give the functions of hypothalamus.  | <b>06</b> |
|             | (b) Write a note on reflex action.  | <b>05</b> |
|             | (c) Describe the different phases of menstrual cycle.   | <b>05</b> |
| <b>Q.5</b>  | (a) Explain the following terms.1) renal calculi 2) asthma 3) glaucoma.   | <b>06</b> |
|             | (b) Write about the physiology of hearing.  | <b>05</b> |
|             | (c) Give the role of oestrogen and progesterone in human body.  | <b>05</b> |
| <b>Q. 6</b> | (a) Write about the synthesis and metabolism of acetylcholine.  | <b>06</b> |
|             | (b) Draw a labeled diagram of respiratory system and Discuss about the anatomy of lungs.  | <b>05</b> |
|             | (c) Give the importance of buffer system for Acid-Base balance in body.   | <b>05</b> |
| <b>Q.7</b>  | (a) Enlist the hormone form thyroid and parathyroid gland and give their functions in body.   | <b>06</b> |
|             | (b) Discuss about the chemical transmission at synaptic level.  | <b>05</b> |
|             | (c) Write about the physiology of olfaction.  | <b>05</b> |

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