

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

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

**GUJARAT TECHNOLOGICAL UNIVERSITY**

**BPHARM – SEMESTER II • EXAMINATION – WINTER - 2013**

**Subject code: 220007**

**Date: 24-12-2013**

**Subject Name: Human Anatomy Physiology and Health Education-II**

**Time: 10:30 am to 01:30 pm**

**Total Marks: 70**

**Instructions:**

1. Attempt all 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 physiology of hearing  | <b>06</b> |
|             | (b) Draw a labeled diagram of male reproductive system.   | <b>05</b> |
|             | (c) Write mode of transmission, prevention and treatment of Cholera.  | <b>05</b> |
| <b>Q.2</b>  | (a) Write effect of Ach on the following : Eye, Gastric secretion, Heart  | <b>06</b> |
|             | (b) Describe first aid treatment for snakebite and discuss cardiac resuscitation method.  | <b>05</b> |
|             | (c) Describe mechanism of calcium regulation by various hormones.   | <b>05</b> |
| <b>Q.3</b>  | (a) Write functions of hypothalamus   | <b>06</b> |
|             | (b) Differentiate between Autonomic nervous system and Somatic nervous system   | <b>05</b> |
|             | (c) Write various methods used for family planning  | <b>05</b> |
| <b>Q.4</b>  | (a) Describe in detail physiology of urine formation.   | <b>06</b> |
|             | (b) Draw labeled diagram of cross section of Eye.   | <b>05</b> |
|             | (c) Write short note on menstrual cycle.  | <b>05</b> |
| <b>Q.5</b>  | (a) Write short note on Medulla oblongata.  | <b>06</b> |
|             | (b) Discuss reasons of sympathetic stimulation longer lasting and wide spread as compare to parasympathetic stimulation. Describe briefly types of sympathetic ganglia. | <b>05</b> |
|             | (c) Differentiate between the followings:   | <b>05</b> |
|             | 1) Spatial summation and Temporal summation   |           |
|             | 2) EPSP and IPSP  |           |
| <b>Q. 6</b> | (a) Explain the role of nervous system in control of breathing.   | <b>06</b> |
|             | (b) Describe demography cycle   | <b>05</b> |
|             | (c) Explain mechanism and importance of myelination in nervous system   | <b>05</b> |
| <b>Q. 7</b> | (a) Explain following terminologies briefly   | <b>06</b> |
|             | 1) Chronic obstructive pulmonary disease  |           |
|             | 2) Renal calculi  |           |
|             | 3) Diabetes mellitus  |           |
|             | (b) What is reflex action and describe various components of reflex arc.  | <b>05</b> |
|             | (c) Write functions of pituitary gland.   | <b>05</b> |

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