

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

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

## GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharmacy Sem-II Examination June 2010

Subject code: 220004

Subject Name: Anatomy Physiology and Health Education-II

Date: 18 / 06 / 2010

Time: 02.30 pm – 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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|------|-----|--|----|
| Q.1  | (a) | Discuss baro-receptor reflex and its physiological importance.                                   | 05 |
|      | (b) | Discuss physiology of urine formation.   | 05 |
|      | (c) | Classify nervous system. Discuss physiological role of each division.                            | 06 |
| Q.2  | (a) | Explain action potential of a neuron.  | 05 |
|      | (b) | Draw well-labeled diagram of eye. Write a note on retina.  | 05 |
|      | (c) | Describe sympathetic (fight or flight) response.   | 06 |
| Q.3  | (a) | Explain properties of cardiac muscle.  | 05 |
|      | (b) | Describe functioning of Renin Angiotensin System.  | 05 |
|      | (c) | Discuss physiology of respiration.   | 06 |
| Q.4  | (a) | Draw a labeled diagram of female reproductive system.  | 05 |
|      | (b) | Write a note on reflex action.   | 05 |
|      | (c) | Discuss anatomy and physiology of thyroid gland.   | 06 |
| Q.5  | (a) | Discuss in detail - Ageing process.  | 05 |
|      | (b) | Write a note on respiratory volumes.   | 05 |
|      | (c) | Discuss physiology of menstruation cycle. Write note on oogenesis.                               | 06 |
| Q. 6 | (a) | Explain regulation and function of insulin hormone.  | 06 |
|      | (b) | Write a note on:<br>(1) ECG (2) Cranial nerves   | 06 |
|      | (c) | Draw a well labeled diagram of brain.  | 04 |
| Q.7  | (a) | Explain physiology of hearing and equilibrium balance.   | 06 |
|      | (b) | Write a note on adrenal secretions.  | 06 |
|      | (c) | Define and explain:<br>(1) Acromegaly (2) Angina pectoris<br>(3) Glaucoma (4) Diabetes insipidus | 04 |

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