

**GUJARAT TECHNOLOGICAL UNIVERSITY****BPHARM – SEMESTER I • EXAMINATION – SUMMER - 2013****Subject code: 2220004****Date: 03-06-2013****Subject Name: Human Anatomy Physiology-II****Time: 02:30 pm to 05:30 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) Discuss physiology of hearing and equilibrium.  | <b>06</b> |
|             | (b) Draw a labelled diagram of Female reproductive system. Discuss anatomy of any one organ involved in it.                             | <b>05</b> |
|             | (c) Define neurotransmitters, EPSP and IPSP. Describe various neurotransmitters.  | <b>05</b> |
| <b>Q.2</b>  | (a) Explain about control and regulation of respiration.  | <b>06</b> |
|             | (b) Write a note on reflex action.  | <b>05</b> |
|             | (c) Write about protective structures and coverings of brain and spinal cord.   | <b>05</b> |
| <b>Q.3</b>  | (a) Draw a labelled diagram of human eye-ball. Add a note on photoreceptors and myopia.   | <b>06</b> |
|             | (b) Narrate fully anatomy and physiology of hind brain.   | <b>05</b> |
|             | (c) Describe anatomy of organ with diagram involved with the function of spermatogenesis.   | <b>05</b> |
| <b>Q.4</b>  | (a) Enumerate disorders related to CNS and spinal cord. Describe any two of them.   | <b>06</b> |
|             | (b) Write about endocrine part of Pancreas.   | <b>05</b> |
|             | (c) Enlist parts of the brain included in brain stem. Add a note on any one of them.  | <b>05</b> |
| <b>Q.5</b>  | (a) Differentiate between SNS and ANS. Describe anatomy and physiology of ANS.  | <b>06</b> |
|             | (b) Describe anatomy of bronchi and lungs.  | <b>05</b> |
|             | (c) Elaborate completely adrenal cortex.  | <b>05</b> |
| <b>Q. 6</b> | (a) Explain and clarify following terms.<br>1. Tuberculosis      2. COPD      3. Vital capacity   | <b>06</b> |
|             | (b) Write functions of urinary system. Explain physiology of urine formation.   | <b>05</b> |
|             | (c) Write a note on cranial nerves.   | <b>05</b> |
| <b>Q.7</b>  | (a) Write about disorders associated with pituitary gland. Add a note on posterior pituitary gland.                                     | <b>06</b> |
|             | (b) Describe anatomy of kidney with labelled diagram.   | <b>05</b> |
|             | (c) Define and explain following terms.<br>1. Glaucoma      2. Gynecomastia      3. Renal calculi<br>4. Impotence      5. Menstruation. | <b>05</b> |

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