

GUJARAT TECHNOLOGICAL UNIVERSITY**BPHARM – SEMESTER I • EXAMINATION – SUMMER - 2013****Subject code: 220004****Date: 03-06-2013****Subject Name: Anatomy Physiology and Health Education****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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| Q.1 | (a) Explain in detail physiology of respiration & discuss factors affecting it | 06 |
| | (b) Discuss different lung volumes to assess functional efficiency of respiratory system | 05 |
| | (c) Elaborate Chronic Bronchitis & Tuberculosis diseases | 05 |
| Q.2 | (a) Draw a well labeled diagram of typical neuron | 03 |
| | (b) Classify neurons | 03 |
| | (c) Explain the process of Generation and propagation of Nerve action potential | 05 |
| | (d) Write a brief overview of various types of neurotransmitters | 05 |
| Q.3 | (a) Discuss the detail internal & external anatomy of spinal cord with figure | 06 |
| | (b) Draw a well labeled diagram of internal structure of brain | 05 |
| | (c) Discuss the functions of hypothalamus | 05 |
| Q.4 | (a) Explain the physiology of Hearing | 06 |
| | (b) Draw a well labeled diagram of eyeball | 05 |
| | (c) Write a brief outline of Parkinson's disease & refraction abnormalities | 05 |
| Q.5 | (a) Explain the physiology of Urine formation | 06 |
| | (b) Describe the detail anatomy of kidney | 05 |
| | (c) Describe anatomy and physiology of urinary bladder | 05 |
| Q. 6 | (a) Describe the location, hormones & functions of thyroid gland | 06 |
| | (b) Describe the location, hormones & functions of anterior pituitary gland | 05 |
| | (c) Describe the regulation of secretion and actions of anti-diuretic hormone (ADH) | 05 |
| Q.7 | (a) Explain the detail process of spermatogenesis with diagram | 06 |
| | (b) Describe the location, structure and functions of female reproductive organs | 05 |
| | (c) Discuss the various contraceptive methods | 05 |
