

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