

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
BPHARM – SEMESTER II • EXAMINATION – WINTER - 2013

Subject code: 2220004

Date: 02-06-2014

Subject Name: Human Anatomy Physiology-II

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.**

- Q.1** (a) Discuss generation and propagation of action potential of neuron with diagram. **06**
(b) Write anatomy and physiology of supra-renal gland. **05**
(c) Write a note on: Cranial nerves. **05**
- Q.2** (a) Explain physiology of respiration. **06**
(b) Enlist thyroid hormones. Write their functions in brief. **05**
(c) Write a note on: Menstrual cycle. **05**
- Q.3** (a) Draw a labeled diagram of male reproductive system. **06**
(b) Describe physiology of hearing. Draw diagram for pathway of sound-waves in ear. **05**
(c) Write a note on: Reflex arc. **05**
- Q.4** (a) Draw a labeled diagram of eye-ball. Write a note on photoreceptors. **06**
(b) Write a note on: (i) Blood brain barrier (ii) Cerebro-spinal fluid **05**
(c) Draw a labeled diagram of nephron. Explain: Why urinary tract infections are more common in women? **05**
- Q.5** (a) Draw a labeled diagram of brain. **06**
(b) Write difference between parasympathetic and sympathetic system. **05**
(c) Discuss physiology of urine formation. **05**
- Q. 6** (a) Enumerate various methods of family planning. Discuss surgical methods in detail. **06**
(b) Enlist pituitary hormones. Discuss control of hypothalamus over anterior pituitary hormones. **05**
(c) Discuss functions of medulla-oblongata and cerebellum. **05**
- Q.7** Explain following terms: **16**
(i) Asthma (v) EPSP
(ii) Parkinson's disease (vi) Diabetes mellitus
(iii) Gynecomastia (vii) Glaucoma
(iv) Dwarfism (viii) Renal calculi
