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GUJARAT TECHNOLOGICAL UNIVERSITY

BPHARM – SEMESTER II • EXAMINATION – WINTER - 2013

Subject code: 2220004 Date: 24-12-2013 Subject Name: Human Anatomy Physiology-II Time: 10:30 am to 01:30 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) Explain: (i) EPSP (ii) IPSP (iii) Post-titanic potential 06 (b) Write composition and functions of CSF. 05 (c) Write a detailed note on reflex arch with suitable diagram. 05 **Q.2** (a) Discuss mechanism and regulations of respiration. 06 (b) Write location and functions of cerebellum. 05 (c) Define following: (i) Asthma (ii) Glaucoma (iii) Renal calculi 05 (iv) Acromegaly (v) Diabetes mellitus Q.3(a) Give difference between sympathetic and parasympathetic system. 06 (b) Write a note on: Adrenergic transmission. 05 (c) Draw a labeled diagram of nephron. Comment: Urinary tract 05 infections are more common in female. **Q.4** (a) Draw a labeled diagram of eye-ball. Write a note on photoreceptors. 06

Q.4 (a) Draw a labeled diagram of eye-ball. Write a note on photoreceptors.
(b) Explain physiology of hearing in detail.
(c) Enlist hormones of supra-renal gland. Write functions of glucocorticoids.
Q.5 (a) Draw a labeled diagram of female reproductive system.
Q6

(a) Draw a labeled diagram of female reproductive system.
(b) Write a note on: Menstrual cycle.
(c) Enlist thyroid hormones. Discuss control of release and functions of thyroxin.

Q. 6 (a) Enumerate various methods of contraception. Describe surgical methods in detail.

(b) Enumerate hormones of anterior pituitary gland. Discuss the control of hypothalamus over release of anterior pituitary hormones.
(c) Write a note on: Cranial nerves.
05

Q.7 (a) Explain following: (i) Parkinson's disease (ii) Blood brain barrier 06 (iii) Vital capacity

(b) Write anatomy and functions of cerebral cortex.

(c) Discuss physiology of urine formation in detail.

05
