

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER-II • EXAMINATION – SUMMER 2017

Subject Code: 2220004**Date: 09/06/2017****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.

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| Q.1 | (a) | Enlist the basic steps of respiration. Explain physiology of respiration. | 06 |
| | (b) | Discuss generation and propagation of action potential of neuron with diagram. | 05 |
| | (c) | Write a note on Acid base imbalance. | 05 |
| Q.2 | (a) | Draw a labeled diagram of nephron. Explain the physiology of glomerular filtration. | 06 |
| | (b) | Discuss various methods of contraception. | 05 |
| | (c) | Write a short note on: (i) COPD, (ii) Hypoxia | 05 |
| Q.3 | (a) | Write a note on: Menstrual cycle. | 06 |
| | (b) | Draw a labeled diagram of brain. | 05 |
| | (c) | Discuss the synthesis, control & release of Thyroid Hormones | 05 |
| Q.4 | (a) | Describe the functions of the adrenal gland hormones. | 06 |
| | (b) | Write a note on: Cranial nerves. | 05 |
| | (c) | Explain following terms: Cataract, Otitis media, Glaucoma, Myopia, Renal calculi | 05 |
| Q.5 | (a) | Draw a labeled diagram of eye-ball. | 06 |
| | (b) | Differentiate between parasympathetic and sympathetic system. | 05 |
| | (c) | Explain following terms: Dwarfism, Gynecomastia, Diabetes mellitus, Oogenesis, Impotence | 05 |
| Q. 6 | (a) | Draw a labeled diagram of male reproductive system. | 06 |
| | (b) | Write a note on Reflex arc. | 05 |
| | (c) | Explain about control and regulation of respiration. | 05 |
| Q.7 | (a) | Define neurotransmitters, EPSP and IPSP. Describe any two neurotransmitters. | 06 |
| | (b) | Discuss the physiology of Hearing. | 05 |
| | (c) | Explain structure and function of kidney. | 05 |
