

GUJARAT TECHNOLOGICAL UNIVERSITY**B. Pharm. – SEMESTER II • EXAMINATION – WINTER 2015****Subject Code: 2220004****Date: 17/12/2015****Subject Name: Human Anatomy Physiology II****Time: 2.30 pm to 5.30 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 part of fore brain. Explain reticular formation. | 06 |
| | (b) | Explain physiology of vision. | 05 |
| | (c) | Describe internal respiration. | 05 |
| Q.2 | (a) | Draw well label diagram of male reproductive system. Explain role of their accessory organs. | 06 |
| | (b) | What is reflex action and explains its types. | 05 |
| | (c) | Physiology of olfaction. | 05 |
| Q.3 | (a) | Explain the followings (1) Alzheimer disease (2) Infertility (3) Otitis media | 06 |
| | (b) | Synthesis, release and function of thyroid hormones. | 05 |
| | (c) | What is chloride shift? Explain control and regulation of respiration. | 05 |
| Q.4 | (a) | Explain structure and function of kidney. | 06 |
| | (b) | Define neurotransmitter. Explain synthesis, release and hydrolysis of Acetylcholine. | 05 |
| | (c) | Discuss disorders of adrenal gland. | 05 |
| Q.5 | (a) | Draw a well label diagram of internal structure of eye. Explain refraction abnormalities. | 06 |
| | (b) | Discuss physiological role of posterior pituitary hormones | 05 |
| | (c) | Generation and propagations of nerve action potential. | 05 |
| Q. 6 | (a) | Classify nervous system. Explain Autonomic nervous system. | 06 |
| | (b) | Define diabetes. Explain role of pancreatic hormones. | 05 |
| | (c) | Short notes on (1) Hormones of ovary (2) Epilepsy | 05 |
| Q.7 | (a) | Draw well label diagram of neuron and explain its properties. | 06 |
| | (b) | What is COPD? Explain respiratory volumes. | 05 |
| | (c) | Define or explain in short following terms (any five) (1) Hypoxia (2) Emphysema (3) Meningitis (4) Dementia (5) Glaucoma (6) MTP | 05 |