

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 2 EXAMINATION – SUMMER -2019

Subject Code: 2220004

Date: 03-06-2019

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) | Describe various Respiratory centers on the basis of their functions. Explain in detail regulation of respiration. | 06 |
| | (b) | Enlist various disorders of endocrine glands. And explain any two disorders in detail. | 05 |
| | (c) | Write a brief note on myelination of neurons. | 05 |
| Q.2 | (a) | Describe Tubular reabsorption and Tubular secretion in different parts of tubule. | 06 |
| | (b) | Write a note on Limbic system. | 05 |
| | (c) | Differentiate between EPSP and IPSP | 05 |
| Q.3 | (a) | Write a note on Medulla oblongata. | 06 |
| | (b) | Write a short note on Glomerular filtration rate | 05 |
| | (c) | Draw a labelled diagram of Eye | 05 |
| Q.4 | (a) | Briefly outline about following diseases :
Glaucoma, Alzheimer's disease, Benign prostatic hyperplasia | 06 |
| | (b) | Write difference between sympathetic and parasympathetic divisions of ANS | 05 |
| | (c) | Write a note on Internal respiration. | 05 |
| Q.5 | (a) | Write effect of Acetylcholine and Norepinephrine on following organs :
i) Eye ii) Heart iii) Liver | 06 |
| | (b) | Enlist cranial nerves. Write about different brain waves. | 05 |
| | (c) | Write a short note on Acid-base balance. | 05 |
| Q. 6 | (a) | Draw a labelled diagram of neuron. Write structural and functional classification of Neurons. | 06 |
| | (b) | What is Hormone? Write in detail about Hormone. | 05 |
| | (c) | Describe physiology of menstruation. | 05 |
| Q.7 | (a) | Explain physiology of hearing and equilibrium. | 06 |
| | (b) | Explain following diseases :
COPD, Tuberculosis, Poliomyelitis | 05 |
| | (c) | Write major parts and functions of Hypothalamus. | 05 |
