

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm SEMESTER– II • EXAMINATION – SUMMER -2018

Subject Code: 2220004

Date: 28/05/2018

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) | Enumerate the hormones of pituitary gland. Discuss role of hypothalamus over the control of pituitary hormones. | 06 |
| | (b) | Differentiate between Parasympathetic and Sympathetic nervous system. | 05 |
| | (c) | Write a short note on BBB. | 05 |
| Q.2 | (a) | Explain the mechanism of generation and propagation of nerve action potential. | 06 |
| | (b) | Explain the anatomy of internal structure of ear with neat and labeled diagram. | 05 |
| | (c) | Describe the physiology of hearing and equilibrium. | 05 |
| Q.3 | (a) | Draw a neat and labeled diagram of brain and enumerate function of each part. | 06 |
| | (b) | Define neurotransmitter. Explain the synthesis, release and hydrolysis of acetylcholine. | 05 |
| | (c) | Describe the sensory receptors of skin and their functions. | 05 |
| Q.4 | (a) | Discuss the synthesis, control and release of thyroid hormones. | 06 |
| | (b) | Explain reflex action of spinal cord in detail. | 05 |
| | (c) | Write a short note on Acid-base balance. | 05 |
| Q.5 | (a) | Explain the physiology of menstrual cycle. | 06 |
| | (b) | Discuss about the respiratory volumes. | 05 |
| | (c) | Enumerate and explain the functions of each cranial nerve. | 05 |
| Q. 6 | (a) | Draw a labeled diagram of functional unit of kidney. Explain the physiology of urine formation. | 06 |
| | (b) | Draw a labeled diagram of male reproductive system. | 05 |
| | (c) | Explain about the CSF. | 05 |
| Q.7 | (a) | Discuss: Exchange of gases at lung and tissue level during respiration. | 06 |
| | (b) | Write a note on cerebrum. | 05 |
| | (c) | Define the following term | 05 |
| | | i. Diabetes insipidus ii. Gynecomastia iii. Renal Calculi | |
| | | iv. Diabetes Mellitus v. Meningitis | |
