

Seat No.: _____

Enrolment No. _____

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
