

Seat No.: _____

Enrolment No. _____

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.

- 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 : **06**
Glaucoma, Alzheimer's disease, Benign prostatic hyperplasia
- (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 : **06**
i) Eye ii) Heart iii) Liver
- (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 : **05**
COPD, Tuberculosis, Poliomyelitis
- (c) Write major parts and functions of Hypothalamus. **05**
