

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 2 EXAMINATION – WINTER -2019**Subject Code: 2220004****Date: 19-12-2019****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) Explain physiology of respiration. **06**
(b) Enlist thyroid hormones. Write their functions in brief. **05**
(c) Write a note on: Menstrual cycle. **05**
- Q.2** (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.3** (a) Discuss various methods of contraception. **06**
(b) Explain the spermatogenesis. **05**
(c) Discuss physiology of urine formation. **05**
- Q.4** (a) Draw well label diagram of neuron and explain its properties. **06**
(b) Define diabetes. Explain role of pancreatic hormones. **05**
(c) Discuss physiological role of posterior pituitary hormones. **05**
- Q.5** (a) Enumerate various methods of family planning. Discuss surgical methods in detail. **06**
(b) Write difference between parasympathetic and sympathetic system. **05**
(c) Define following terms. **05**
1. Menstruation 2. Gynecomastia 3. Parkinson's disease 4. Dwarfism
5. EPSP
- Q.6** (a) Draw a well label diagram of internal structure of eye. Explain refraction abnormalities. **06**
(b) What is COPD? Explain respiratory volumes. **05**
(c) Write a note on: Cranial nerves. **05**
- Q.7** (a) Draw a labeled diagram of male reproductive system. **06**
(b) Describe physiology of hearing. **05**
(c) Write a note on: Reflex arc. **05**
