

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 2 EXAMINATION – SUMMER -2019**Subject Code: BP201TP****Date: 27-05-2019****Subject Name: Human Anatomy and 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 digestion of carbohydrates and proteins in the different parts of digestive system. **06**
(b) Write a note on myelination of neuron. **05**
(c) Describe in detail functions, formation and circulation of cerebrospinal fluid. **05**
- Q.2** (a) Describe in detail physiology of urine formation. **06**
(b) Write a note on physiology of menstruation. **05**
(c) What are effects of glucocorticoids? **05**
- Q.3** (a) Which are respiratory centers and write a note on respiratory regulation. **06**
(b) Describe in detail different phases of Digestion. **05**
(c) Which hormones are secreted from different types of pancreatic islet cells? Write their main actions. **05**
- Q.4** (a) Explain formation, storage and release of thyroid hormones. **06**
(b) Write a note on resuscitation methods. **05**
(c) Describe anatomy and physiology of cerebellum. **05**
- Q.5** (a) Draw a labelled diagram of kidney and nephron. **06**
(b) Describe anatomy and physiology of hypothalamus **05**
(c) Write a short note on synapse. **05**
- Q. 6** (a) Differentiate between followings: **06**
1) Graded potential and Action potential
2) EPSP and IPSP
(b) Write a note on Reflex arc. **05**
(c) Describe Renin Angiotensin System. **05**
- Q.7** (a) Describe following Diseases/disorders : **06**
Renal calculi, Gynecomastia, Impotence
(b) Draw a labelled diagram of Male reproductive system. **05**
(c) Describe protein synthesis. **05**
