

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 2 EXAMINATION – WINTER -2019

Subject Code: BP201TP**Date: 16-12-2019****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) Describe mechanism and regulation of respiration. **06**
(b) Describe the importance of buffer system for acid-base balance. **05**
(c) Write a short note on CSF. **05**
- Q.2** (a) Draw a labeled diagram of human brain. Write functions of hypothalamus. **06**
(b) Define hormone. Classify endocrine glands and their hormones. **05**
(c) Write in details about pancreatic hormones. **05**
- Q.3** (a) Discuss the various methods of artificial respiration and resuscitation. **06**
(b) Describe the various phases of gastric secretion. **05**
(c) Write a note on BMR. **05**
- Q.4** (a) Describe the regulation and actions of anterior pituitary hormones. **06**
(b) Write physiology of thyroid hormone. **05**
(c) Write physiological actions of glucocorticosteroids. **05**
- Q.5** (a) Describe various phases of menstrual cycle. **06**
(b) Describe functions of testes in detail. **05**
(c) Write functions of human liver. **05**
- Q.6** (a) Write a note on protein synthesis. **06**
(b) Draw labeled diagram of male reproductive system. **05**
(c) Describe the basis of autosomal inheritance. **05**
- Q.7** (a) Discuss about the physiology of urine formation. **06**
(b) Discuss the process of nerve action potential generation. **05**
(c) Draw a neat and labeled diagram of nephron. Write functions of kidney. **05**
