

Seat No.: _____

Enrolment No. _____

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.

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| 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 |
