

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.

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| 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:
1) Graded potential and Action potential
2) EPSP and IPSP | 06 |
| | (b) Write a note on Reflex arc. | 05 |
| | (c) Describe Renin Angiotensin System. | 05 |
| Q.7 | (a) Describe following Diseases/disorders :
Renal calculi, Gynecomastia, Impotence | 06 |
| | (b) Draw a labelled diagram of Male reproductive system. | 05 |
| | (c) Describe protein synthesis. | 05 |
