

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm – SEMESTER - II EXAMINATION – WINTER -2021

Subject Code:BP201TP

Date:25/02/2022

Subject Name: Human Anatomy and Physiology II

Time: 02:30pm to 05:30pm

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) Enlist neurotransmitters. Write a brief note on each of them. **06**
(b) Explain structure and functions of cerebellum. **05**
(c) Explain the process of generation and conduction of nerve impulse through neurons. **05**
- Q.2** (a) Describe anatomy, histology and functions of small intestine. **06**
(b) Draw transverse section of spinal cord and discuss its anatomy and physiology. **05**
(c) Discuss structure and functions of thyroid gland. **05**
- Q.3** (a) Explain anatomy, histology, blood supply and functions of Liver. **06**
(b) What is external and internal respiration ? Explain with diagram. **05**
(c) Discuss different lung volumes to assess functional efficiency of respiratory system. **05**
- Q.4** (a) Describe the external and internal gross anatomical features of kidneys, its histology and blood supply. **06**
(b) Explain the process of physiology of urine formation. **05**
(c) Define hormones. Classify them chemically with examples. **05**
- Q.5** (a) Enlist hormones secreted from anterior pituitary gland and discuss them. **06**
(b) Write about hormones of adrenal medulla. **05**
(c) Write about hormones of islets of Langerhans of pancreas. **05**
- Q. 6** (a) Draw a labeled diagram of female reproductive system. Discuss anatomy, histology and functions of any one organ involved in it. **06**
(b) Discuss different phases of menstrual cycle. **05**
(c) Discuss the process of spermatogenesis. **05**
- Q.7** (a) Write a note on protein synthesis. **06**
(b) Explain following terms : **05**
1) Graves' disease (2) Renal calculi (3) Constipation
(c) Write a note on cerebro spinal fluid. **05**
