

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm. - SEMESTER – II • EXAMINATION – WINTER - 2023

Subject Code: BP201TP**Date: 17/01/2024****Subject Name: Human Anatomy and Physiology II****Time: 02:30 PM to 05:30 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) What is chloride shift? Discuss mechanism and regulation of Respiration. **06**
(b) Explain protein synthesis in detail. **05**
(c) Draw a well labeled diagram of Female Reproductive System. **05**
- Q.2** (a) Write in detail pregnancy and parturition. **06**
(b) Discuss composition and function of gastric juice. **05**
(c) Draw labeled diagram of digestive system and enumerate functions of each of the labeled parts. **05**
- Q.3** (a) Write the functions of liver and disorders related to it. **06**
(b) Explain the following terms: Infertility, Vital capacity, Chromosomes, synapse, BMR **05**
(c) Enlist hormones of supra-renal gland. Write functions of glucocorticoids. **05**
- Q.4** (a) Discuss various methods of contraception. **06**
(b) Describe artificial respiration and resuscitation method. **05**
(c) Explain the spermatogenesis. **05**
- Q.5** (a) Write short note on parathyroid glands. **06**
(b) Explain physiology of urine formation. **05**
(c) Enlist thyroid hormones. Discuss control of release and functions of thyroxin. **05**
- Q. 6** (a) Discuss generation and propagation of action potential of neuron with diagram. **06**
(b) Enlist pituitary hormones. Discuss control of hypothalamus over anterior pituitary hormones **05**
(c) What are inherited diseases? Explain the pattern of inheritance. **05**
- Q.7** (a) Explain the organization of nervous system. **06**
(b) Discuss functions of medulla-oblongata and cerebellum. **05**
(c) Define diabetes. Explain role of pancreatic hormones. **05**
