

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM – SEMESTER – 2 EXAMINATION – WINTER-2025

Subject Code: BP201TP**Date: 09-12-2025****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) Draw a neat labeled diagram of digestive system.	06
	(b) Write a note on spermatogenesis.	05
	(c) Explain why pituitary gland is called as master gland?	05
Q.2	(a) Discuss about hormones that modify the functioning of nephron.	06
	(b) Explain conduction of nerve impulse.	05
	(c) Explain energetics of ATP.	05
Q.3	(a) Write a note on physiological role of corticosteroids.	06
	(b) Explain the mechanisms involved in the exchange of gases at the cellular level.	05
	(c) Write a note on micturition reflex.	05
Q.4	(a) Describe the physiological changes of pregnancy.	06
	(b) Describe the physiological role of neurotransmitters of autonomic nervous system.	05
	(c) Give the composition of pancreatic secretions and its physiological role in the digestion process.	05
Q.5	(a) Write a note on pancreatic endocrinal hormones.	06
	(b) Write a note on female sex hormones.	05
	(c) Write a note on tidal volume and vital capacity.	05
Q. 6	(a) Draw a neat labeled diagram of male reproductive system.	06
	(b) Explain structural and functional unit of kidney.	05
	(c) Describe the mechanism of gastric acid secretion.	05
Q.7	(a) Write a short note on reflex arc.	06
	(b) Discuss physiology of thyroid gland.	05
	(c) Explain the process of internal respiration.	05
