

INDIRA UNIVERSITY, PUNE

SCHOOL OF PHARMACY- BPHARM

Term End Examination (2025 Pattern) April- May – 2026- Semester – II

Course Name: Human Anatomy and Physiology –II
Course Code: BP201T

Max. Marks: 75
Time: 3:00 Hrs.

Instructions

- All Questions are Compulsory. Write two sections on separate answersheets.
 - Neat diagram must be drawn wherever necessary.
 - Figures to the right indicate full marks.
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Section : I

Q.1 Solve any FIVE from the following

15 Marks

- Explain compositions and functions of pancreatic juice.
- Describe the functions of ovaries.
- Explain neuroglia in the central nervous system.
- Name the hormones secreted by anterior pituitary with their role.
- Enlist the parts of respiratory tract. Write functions of alveoli.
- Define gene and genomics.
- What is ATP? explain its role in muscle metabolism.

Q.2 Solve any TWO from the following

20 Marks

- Describe the structure of nephron. Explain the physiology of urine formation.
- Explain the structure of thyroid gland. Discuss in detail thyroid hormones.
- Enumerate parts of brain and write a note on cerebrum.
- Define internal and external respiration. Explain the gaseous exchange at lung and tissue level.

Section: II

Q.3 Solve any EIGHT from the following

40 Marks

- a. Write a short note on neurotransmitters.
- b. Discuss in detail physiology of menstruation.
- c. Explain the functions of liver.
- d. Write a note on spermatogenesis.
- e. Write a short note on pineal gland.
- f. Write an account on physiology of micturition.
- g. Discuss structure and functions of stomach.
- h. Describe the location, gross anatomy and organization of lungs.
- i. Draw neat, labelled diagram of spinal cord and explain reflex arc.
- j. Elaborate basal metabolic rate and its significance.
