

INDIRA UNIVERSITY, PUNE

SCHOOL OF PHARMACY- BPHARM

Backlog Examination (2025 Pattern) April/ May – 2026 - Semester – I

Subject Name: Human Anatomy and Physiology-I
Subject Code: BP101T

Max. Marks: 75
Time: 3 Hours

Instructions

- All questions are compulsory. Write two sections on separate answersheets.
 - Draw neat diagrams wherever applicable.
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Section : I

Q.1 Solve any FIVE from the following

15 Marks

- Enlist the functions of lymphatic system.
- Explain composition and functions of blood.
- Explain any three disorders of eye.
- Explain the characteristics of sympathetic nervous system.
- Enlist the functions of mitochondria.
- Define the terms- blood pressure, cardiac output and stroke volume.
- Define and classify cell junctions.

Q.2 Solve any TWO from the following

20 Marks

- Explain cardiac cycle & pathway of blood circulation.
- Explain structure and functions of skin along with diagram.
- Define and classify tissues. Discuss in detail epithelial tissue.
- Enlist clotting factors & discuss in detail mechanism of blood clotting.

Section : II

Q.3 Solve any EIGHT from the following

40 Marks

- Illustrate different types of WBCs along with diagram.
- Explain physiology of muscle contraction.

- c. Describe role of kidney in blood pressure regulation.
- d. Explain structure & functions of arteries & veins.
- e. Explain in brief ball and socket joint with diagram.
- f. Describe nervous tissues & its functions in detail.
- g. Discuss the physiology of vision.
- h. Explain general principles of cell communication.
- i. Describe connective tissue & their functions .
- j. Explain parasympathetic nervous system.
