

INDIRA UNIVERSITY, PUNE

SCHOOL OF PHARMACY-B.PHARM

Term End Examination (2025 Pattern) December – 2025 - 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**

- Define anatomy & physiology.
- Classify different mechanisms of transport across cell membrane.
- Explain electrocardiogram with help of diagram.
- Enlist important features of muscle tissue.
- Draw diagram of structure of eye.
- Explain types of bones with examples.
- Define homeostasis mechanism.

Q.2 Solve any TWO from the following **20 Marks**

- Describe the outflow and functions of autonomic nervous system with special reference to sympathetic nervous system.
- Explain physiology of cardiac blood circulation & Explain structure of heart.
- Draw diagram of cell. Explain in detail structure and functions of cell.
- Explain structure and functions of skin along with diagram.

Section : II

Q.3 Solve any EIGHT from the following **40 Marks**

- Explain the origin and functions of cranial nerves.
- Illustrate the process of blood coagulation.
- Define tissue. Explain different types of epithelial tissue.
- Explain joints movement & articulation.

- e Explain the role of Renin Angiotensin system in regulation of Blood Pressure.
- f Explain lymph circulation & functions of lymphatic system.
- g Explain physiology of muscle contraction.
- h Explain structure & functions of tongue.
- i Explain ABO blood group system
- j Describe Contact dependent signalling.
