

PHYSIOLOGY

[HONOURS]

Skill Enhancement Course (SEC)

Course Code : PHYSIOL-H-SEC-T-2

(Histopathological Techniques)

Full Marks : 20

Time : 1 Hour

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

1. Answer any **five** questions : $1 \times 5 = 5$
- What is a microtome?
 - State the composition of Leishman stain.
 - Which cell is termed as "Giant Nucleus cell"?
 - What is the difference between a stain and a dye?
 - What are the disadvantages of using Xylol as cleaning agent?
 - Name one commonly used adhesive used for preparing slides for tissue sections.
 - Name one histological character of bone.
 - Name one primary fixative.

2. Answer any **one** question: $5 \times 1 = 5$
- Give the advantages and disadvantages of using formol as fixative. 5
 - What is embedding? State the precautions to be taken while preparing paraffin blocks for embedding. $2+3=5$
 - State the importance of using adhesive while preparing slide of tissue sections. 5
3. Answer any **one** question: $10 \times 1 = 10$
- Briefly discuss the process of preparation and staining of blood film. 10
 - Discuss the staining procedure of a fixed tissue section using haematoxylin and eosin. 10
 - Briefly discuss the method used for measurement of diameter of megakaryocyte. 10

[Turn Over]