

## PHYSIOLOGY

[HONOURS]

Skill Enhancement Course (SEC)

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

Full Marks : 40

Time : 2 Hours

*The figures in the right-hand margin indicate marks.*

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

### (Histopathological Techniques)

1. Answer any **five** questions :  $2 \times 5 = 10$
- What is the basic difference between histology and histopathology?
  - State the importance of embedding.
  - What is acid stain? Give one example.
  - Write down the compositions of Leishman stain.
  - What is the purpose of dehydration process in tissue preparation for histological slides?
  - What are the advantages of using xylene as clearing agent?
  - What is the purpose of alkaline phosphatase staining?

2. Answer any **two** questions:  $5 \times 2 = 10$
- Describe briefly the steps of Embedding.
  - Name two types of fixative agents and their utility.
  - Describe the steps of PAS staining.
  - Describe the steps to be taken for histological section cutting process.

3. Answer any **two** questions:  $10 \times 2 = 20$
- Briefly discuss the staining procedure of a fixed tissue sections using haematoxylin and eosin.
  - Discuss different types of fixative agents commonly used for tissue fixation.
  - Discuss briefly progressive method of staining and regressive method of staining.
  - Discuss the process of preparation and staining of blood film.
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