

U.G. 3rd Semester Examination-2021**PHYSIOLOGY****[HONOURS]****Skill Enhancement Course (SEC)****Course Code : PHYSIOL-H-SEC-T-1**

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.*1. Answer any **five** questions: $2 \times 5 = 10$

- i) State the difference between a stain and dye.
- ii) What is the difference between histology and histopathology of a tissue?
- iii) What is the purpose of fixation while preparing histological slides?
- iv) Mention two fixatives commonly used in laboratory.
- v) What is the purpose of dehydration process in tissue preparation for histological slides?
- vi) Write down the composition of Leishman stain.

vii) What do you mean by acid stain? Give one example.

viii) What is the purpose of alkaline phosphatase staining?

2. Answer any **two** questions: $5 \times 2 = 10$

- i) Describe the steps of fixation during preparation of histological slides.
- ii) State the purpose of Wax impregnation or Embedding.
- iii) Briefly state the Procedure used for staining of squamous epithelial tissue.
- iv) Name two types of fixative agent and their utility.

3. Answer any **two** question. $10 \times 2 = 20$

- i) Discuss the process of preparation and staining of blood film.
- ii) Briefly discuss the method of staining of fixed tissue section using haematoxylin and eosin.
- iii) Briefly discuss the method used for measurement of diameter of megakaryocyte.
- iv) Discuss in brief about microtome.

[Turn Over]