

U.G. 3rd Semester Examination-2020

PHYSIOLOGY

[HONOURS]

Skill Enhancement Course (SEC)

Course Code : PHYSIOL-H-SEC-T-01

(Haematological Techniques)

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: 2×5=10
- Define clotting time.
 - State the importance of SGPT.
 - Name a method for estimation of hemoglobin in human blood. State its principle.
 - What are the normal counts of RBC and WBC in adult human blood?
 - Define anaemia.
 - What is 'true haematocrit'?
 - What is leukocytosis?
 - What is PCV?

2. Answer any **two** questions: 5×2=10
- What is the composition of Leishman's stain? State the functions of each constituent. 3+2
 - Write the differences between peripheral and venous blood. 5
 - How can a good blood smear be drawn? 5
 - Discuss in short the function of platelets in blood. 5
3. Answer any **two** questions: 10×2=20
- Describe the method of staining of human blood smear. 10
 - Describe the method for the estimation of blood haemoglobin. State the conditions in which haemoglobin in the human blood may be increased. 4+6
 - What is SGOT? Write the method of estimation of SGOT. What can be inferred if SGOT level is higher than the normal? 2+6+2
 - What is BT? Give the physiological importance of coagulation. 2+8