

B.Sc. Semester-III Examination, 2022-23**PHYSIOLOGY [Honours]****Course ID : 32511 Course Code : SH/PHY/301/C-5(T)****Course Title : Circulating Body Fluids**

Time : 1 Hour 15 Minutes Full Marks : 25

*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** of the following questions:

1×5=5

- What is leucocytosis?
- What is thrombocytopenia?
- Why is blood called a connective tissue?
- Define MCHC.
- How is intrinsic thromboplastin formed?
- Name any two vitamins responsible for erythropoiesis.
- Define diapedesis.
- What is aplastic anaemia?

2. Answer any **two** of the following questions:

5×2=10

- Write a short note on nutritional anaemia. What are 'Howell-Jolly' bodies? 4+1
- Which group of blood is called universal donor and why? Briefly mention the importance of blood group antigens. 2+3
- Write the role of white blood cells in body defence mechanism. 5
- 'Biconcave shape of RBC has physiological advantage' – Explain it. State the mechanism of action of heparin in human body. 2+3

3. Answer any **one** of the following questions:

10×1=10

- Describe the mechanism of extrinsic pathway of blood coagulation mentioning the factors affecting it. 6+4
- Describe any one method of plasma protein separation. What is Whipple's experiment? What is erythroblastosis foetalis? 5+3+2
