B.Sc. Semester III (Honours) Examination, 2021-22

PHYSIOLOGY

Course Code: SH/PHY/301/C-5(T)

Course Title: Circulating Body Fluids

Time: 1 Hour 15 Minutes

Course ID: 32511

The figures in the margin indicate full marks.

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

| . Answer any five questions of the following: | 1×5=5 |
|--|------------|
| (a) What is Arneth Count? Mention its significance. | |
| (b) Differentiate between HbF and HbA. | |
| (c) Why myoglobin has greater affinity for O_2 than haemoglobin? | |
| (d) What is thalassemia? | |
| (e) What is platelet plug? | |
| (f) Mention the role of vitamin K in clotting. | |
| (g) What is D-antigen? | |
| (h) Mention the function of mast cell. | |
| 2. Answer any two questions of the following: | 5×2=10 |
| (a) Describe the hazards of blood transfusion. How is blood stored in blood | bank? 3+2 |
| (b) Briefly describe different types of anaemia. | 5 |
| (c) Explain the formation, composition and functions of lymph. | 1+2+2 |
| (d) State the role of immunoglobulins in immunity. What are memory T ce | ells? 4+1 |
| 3. Answer <i>any one</i> question of the following: | 10×1=10 |
| (a) Define erythropoiesis. Describe the stages and factors influencing eryth | ropoiesis. |
| | 2+4+4 |
| (b) Describe the steps of biosynthesis of haem by mentioning the role of en | izymes. |

Full Marks: 25