



বিদ্যাসাগর বিশ্ববিদ্যালয়
VIDYASAGAR UNIVERSITY
Question Paper

B.Sc. Honours Examinations 2021

(Under CBCS Pattern)

Semester - III

Subject : PHYSIOLOGY

Paper : C 5 - T & P

(Circulating Body Fluids)

Full Marks : 60 (Theory-40 + Practical-20)

Time : 3 Hours

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

The figures in the margin indicate full marks.

(Theory : Marks - 40)

Group - A

A. Answer any **three** of the following questions :

12×3=36

1. What is Hemostasis? Write the blood coagulation process in brief (Intrinsic and Extrinsic pathway). 2+(5+5)
2. Write a note on Leukemia. Write down the process of Leucopoiesis. 4+8
3. Write the immunological basis of ABO blood grouping. What is erythroblastosis foetalis? What are BT and CT? 4+6+2

4. What is erythropoiesis? Write down the process of erythropoiesis. Describe in brief the factors affecting erythropoiesis. 2+5+5
5. Write down the contribution of WBCs in immune function in human. Describe the function of blood plasma. 8+4
6. Write a note on bone marrow and its functions. Write down the composition and functions of lymph. 6+(3+3)

Group - B

B. Answer any *two* of the following questions : 2×2=4

1. What is MCH? 2
2. What is diapedesis? 2
3. What is Arneht Index? 2
4. What is polycythemia? 2

(Practical)

Paper - C5-P

(Hematological Experiments)

Marks : 20

Group - A

A. Answer any *one* of the following questions : 15×1=15

1. Describe the procedure of preparation a blood film and staining with Leishman's stain of your own blood. How would you differentiate RBCs and WBCs in the film?
(8+4)+3
2. Describe the principle and procedure of estimation of the amount of haemoglobin of your own blood by hemoglobinometer. How would you interpret the result?
10+5
3. Describe the principle and procedure of determination of blood group of any supplied blood sample. How would you categorize the blood groups in terms of blood donation?
(6+6)+3

Group - B

B. Write note on any one from the following : 5×1=5

1. Haemin crystal 5
 2. Reticulocyte staining 5
 3. Bleeding time and clotting time. 2½+2½
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