

B.Sc. Semester III (Honours) Examination, 2018-19

PHYSIOLOGY

Course ID : 32511

Course Code : SHPHY/301/C-5(T)

Course Title : Circulating Body Fluids

Time: 1 Hour 15 Minutes

Full Marks: 15

The figures in the margin indicate full marks.

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

1. Answer *any five* questions from the following: 1×5=5
 - (a) What is blood typing?
 - (b) Name one natural and one chemical anticoagulants.
 - (c) Write any one difference between red and yellow bone marrow?
 - (d) What is fibrinolysis?
 - (e) What is erythroblastosis foetalis?
 - (f) What are the 'T' and 'R' forms of haemoglobin?
 - (g) What is leukopenia?
 - (h) What is 'Arneth Count'?

 2. Answer *any two* questions from the following: 5×2=10
 - (a) Name the plasma proteins? Mention their functions. 1+4=5
 - (b) What are the functions of platelets? Write the clinical consequence of thrombocytopenia. 2½+2½=5
 - (c) Discuss the composition and functions of lymph. 2+3=5
 - (d) Explain the basis of 'ABO' blood grouping. State any two condition for blood transfusion. 3+2=5

 3. Answer *any one* questions from the following: 10×1=10
 - (a) Describe in brief the modern concept of blood coagulation. What thrombus? Write the role of calcium on blood coagulation. 7+1+2=10
 - (b) What is erythropoiesis? Describe the different stages of erythropoiesis. Mention the factor regulating erythropoiesis. 1+6+3=10
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