

WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 3rd Semester Examination, 2020, held in 2021

PHYACOR05T-PHYSIOLOGY (CC5)

CIRCULATING BODY FLUIDS

Time Allotted: 2 Hours Full Marks: 40

The figures in the margin indicate full marks.

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

All symbols are of usual significance.

		Answer any five questions from the following	$8 \times 5 = 40$
1.	(a)	What is rouleaux formation? What is the fate of RBC after its life span?	1+1
	(b)	Describe the different stages of erythropoiesis.	4
	(c)	Define ESR. What is its normal value?	1+1
2.	(a)	Name one natural anticoagulant and three synthetic anticoagulants.	2
	(b)	What are mast cells? What is their function?	2+1
	(c)	How lymphocytes are produced in bone marrow?	3
3.	(a)	What is megaloblastic anemia? State the morphological changes of RBC in megaloblastic anemia.	1+2
	(b)	Define and give the normal values of different blood indices.	3
	(c)	Differentiate between adult haemoglobin and fetal haemoglobin.	2
4.	(a)	What is von Willebrand disease?	1
	(b)	What are the hazards of mismatched blood transfusion?	2
	(c)	What is cross-matching of blood? What is its importance?	2+1
	(d)	What is H antigen?	2
5.	(a)	What are lymph nodes? Mention the locations.	1+1
	(b)	Discuss the functions of plasma proteins.	4
	(c)	What is plasmapheresis?	2
6.	(a)	Explain the intrinsic pathway of blood coagulation.	5
	(b)	Define edema. What are causes for extracellular edema?	1+2
7.	(a)	Classify different types of immunoglobulins.	2
	(b)	Describe the immunological basis of ABO blood grouping.	4
	(c)	Why reticulocyte is called the immature red blood cell?	2

CBCS/B.Sc./Hons./3rd Sem./PHYACOR05T/2020, held in 2021

8. Write brief notes on the following:
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(a)	Hemophilia	2
(b)	Pernicious anemia	2
(c)	Transferrin	2
(d)	Reticuloendothelial System.	2

N.B.: Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.

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