## UG/3rd Sem/PHYSIO(H)/T/19

2019

B.Sc.

## 3rd Semester Examination

## PHYSIOLOGY (Honours)

Paper - C 5-T

(Circulating Body Fluids)

Full Marks: 40 Time: 2 Hours

The fi gures in the margin indicate full marks. Crandidates are required to give their answers in their own words as far as practicable.

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1. Answer any five questions from the following:			
5×2=	10		
(a) Differentiate between red and yellow bo	ne		
marrow.	2		
(b) What is plasmapheresis?	2		
(c) What is aplastic anaemia?	2		
(d) Name the derived products of haemoglobin.	2		
(e) What is erythroblastosis foetalis?	2		
[ Turn Over ]			

(f)	Differentiate between antigen and hapten.	2
(g)	What is Schilling Index?	2
(h)	What is thrombocytopenia?	2
Answer any <i>four</i> questions from the following: $4 \times 5 = 20$		
(a)	Explain the immunological basis of blood grotyping.	υ 5
(b)	What is lymph? Discuss its composition a function.	nd ⊦4
(c)	What is Aplastic Anemia ? State its sympton	ns
	and how can it be treated? 2+1-	+2`
(d)	What is Aquired Immunity? State the important of vaccination. Name the cell types involved humoral and cellular immunity. 2+2-	in
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(e)	Write down the functions of plasma protein Why blood is not coagulated in the body?3	

(f) Differentiate between Adult and Foetal haemoglobin. What is Haemoglobin S?

3. Answer any one question:

1×10=10

- (a) Describe the stages of erythropoeisis with neat diagram highlighting the role of vitamins and folate. Discuss the hazards involved in blood transfusion. (4+2)+4
- (b) Discuss the process of blood coagulation mentioning its different factors. What is fibrinolysis? How does it occur? (4+2)+2+2