Enrollment No: _____ Exam Seat No:_____

C.U.SHAH UNIVERSITY

Summer Examination-2018

Subject Name : Hematology : Transfusion Medicine

Subject Code : 2SC02HTMI **Branch: PGDMLT**

Semester : 2 **Date : 25/04/2018** **Time : 10:30 To 01:30** **Marks : 70**

Instructions:

(1) Use of Programmable calculator & any other electronic instrument is prohibited.
(2) Instructions written on main answer book are strictly to be obeyed.
(3) Draw neat diagrams and figures (if necessary) at right places.
(4) Assume suitable data if needed.

Q-1 **Attempt the following questions:** **(14)**

a)	Write the four functions of blood.	1
b)	Name the site of poieses of blood cell.	1
c)	Write the size of RBC in adult blood.	1
d)	Write the life span of RBC.	1
e)	Write the function of Neutrophil.	1
f)	Write the range of leukocyte count.	1
g)	Write the platelets count in adult blood.	1
h)	Write the normal range of hemoglobin.	1
i)	Give the definition of Anaemia.	1
j)	Write the normal range of BT, CT.	1
k)	Enumerate the blood group system.	1
l)	Name the tests before Blood Transfusion.	1
m)	Write the indications of Blood Transfusion.	1
n)	Write the two condition where blood transfusion requires.	1

Attempt any four questions from Q-2 to Q-8

Q-2 **Attempt all questions** **(14)**

a	Give the morphological feature and function of Lymphocyte.	**7**
b	Name the various methods of Hemoglobin Estimation. Describe Sahli's method for estimation of hemoglobin.	**7** **(2 + 5)**

Q-3

a	What is anticoagulant? Name various anticoagulants and their use in various blood tests.	**7**
b	Describe the manual methods of total leucocyte count.	**7**

Q-4

a	Describe the morphological variation of RBC on peripheral blood smear.	7

	b	Describe the morphology of all leucocyte with diagram and their significance in medicine .	7
Q-5			
	a	Explain various methods of detecting the malarial parasite in blood.	7
	b	Write a note on waste management in hematology laboratory.	7
Q-6			
	a	Explain the blood group (ABO) detection method in blood bank.	7
	b	Describe in detail of cross-match method.	7
Q-7			
	a	Explain blood transfusion reaction.	7
	b	Describe selection of blood donor.	7
Q-8			
	a	Describe various methods of bleeding and clotting time.	6
	b	Explain RBC indices and their use in diagnosis of diseases.	8