

C.U.SHAHUNIVERSITY

Summer Examination-2022

Subject Name: Hematology: Transfusion Medicine-Theory

Subject Code: 3SC02HTM1

Branch: PGDMLT

Semester: 2

Date: 05/07/2022

Time: 11:00 To 02:00

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 down two common causes of Eosinophilia.	1
	b) Write the normal range of White blood cells in adults.	1
	c) Write the characteristics features of neutrophils in megaloblasticanemia.	1
	d) Write down the functions of Neutrophils.	1
	e) Write the normal range of HB in female.	1
	f) Write the two newer methods for cross match in blood bank.	1
	g) Write about Bombay blood group.	1
	h) Write the shelf life of platelet concentrate with storage temperature.	1
	i) Write two causes of Reticulocytosis.	1
	j) Name the two condition in which ESR is Increased.	1
	k) Write storage temperature of PCV and FFP.	1
	l) Name the four common tests done before blood transfusion.	1
	m) Write the range of ESR by wintrobe method.	1
	n) Write the cut off value of hemoglobin in donor seletion.	1

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

Q-2	Attempt all questions	(14)
	a) Discuss special stains used in hematology.	5
	b) Describe various anticoagulant with the iruses.	4
	c) Write down the methods of heamoglobin estimation.	5
Q-3	Attempt all questions	(14)
	a) Define leukemia, classify it and write difference between leukemia and leukemoid reaction.(1+3+3)	7
	b) Define anemia, classify it and write in detail about Iron deficiency anemia.(1+3+3)	7
Q-4	Attempt all questions	(14)
	a) Write about various blood grouping system and methods of blood grouping.	5



	b	Describe various blood component separation methods with their storage.	5
	c	Enumerate various transfusion transmitted infection.	4
Q-5		Attempt all questions	(14)
	a	Quality control in blood banking.	5
	b	Write down the donor selection criteria in blood bank.	5
	c	Enumerate blood bank instruments.	4
Q-6		Attempt all questions	(14)
	a	Waste management in hematology.	5
	b	Define Reticulocytes. Value of reticulocytes in heathand diseases.	5
	c	Define Basophillia with its causes.	4
Q-7		Attempt all questions	(14)
	a	Indications of peripheral smear examination. Describe various parasite seen in bloodsmearand method of detection of parasites(2+5)	07
	b	Describe in detail about RBC indices and their uses in diagnosis of diseases.	07
Q-8		Attempt all questions	(14)
	a	Describe in detail the manual method of total leucocyte count.	7
	b	Describe the morphological variation of RBC on peripheral bloodsmear.	7

