

C.U.SHAH UNIVERSITY

Summer Examination-2017

Subject Name : Medical Laboratory Techniques

Subject Code : 4SC05MLT1

Branch : B.Sc.(Microbiology)

Semester : 5

Date : 30/03/2017

Time : 02:30 To 05:30

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 full form of ISO.	1
	b) Write full form of NABL.	1
	c) Define phlebotomy.	1
	d) Write name of universal donor blood group.	1
	e) Write full form of CBC.	1
	f) What is hematopoiesis?	1
	g) Define Erythorpoiesis.	1
	h) Define histopathology.	1
	i) Write full form of WBC.	1
	j) Define plasma.	1
	k) Blood is a tissue. True/False	1
	l) Hematopoiesis takes place in bone marrow. True/False	1
	m) Define Leukemia.	1
	n) Write full form of RBC.	1
Q-2	Attempt all questions	(14)
A	Explain types of Laboratories with classes.	7
B	Explain waste management in medical laboratories.	7
Q-3	Attempt all questions	(14)
A	Explain all factors affecting process of electrophoresis.	7
B	Explain photometry, turbidometry and colorimetry	7



Q-4	Attempt all questions	(14)
A	Explain nephelometry in detail with diagram.	7
B	Explain flame photometry in detail with diagram	7
Q-5	Attempt all questions	(14)
	Explain Levey-Jenning chart with any random example.	7
	Explain any 7 basic instruments requires in medical laboratories.	7
Q-6	Attempt all questions	(14)
	Explain tissue fixation process in detail.	7
	Explain blood groups in detail.	7
Q-7	Attempt all questions	(14)
	Explain types of Thalassemia in detail.	7
	Explain types of anemia in detail.	7
Q-8	Attempt all questions	(14)
	What is Rh factor? Explain erythroblastosis foetalis.	7
	Explain principle of blood transfusion.	7

