Enrollment No: Exam Seat No:

C.U.SHAH UNIVERSITY

Winter Examination-2015

Subject Name : Medical Laboratory Techniques

Subject Code: 4SC05MLT1 Branch: B.Sc(Microbiology)

Semester: 5 Date: 9/12/2015 Time: 2:30 To 5:30 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)	Define molarity	1
	b)	Define buffers	1
	c)	Define histopathology	1
	d)	Write different genotypes for blood groups.	1
	e)	Enlist different classes of laboratories.	1
	f)	Which scientist discovered blood grouping?	1
	g)	How will you prepare 2N solution of HCl?	1
	h)	What is W/W and W/V.	1
	i)	Define HSC	1
	j)	What are myloid stem cells?	1
	k)	Write formula to calculate normality.	1
	1)	How will you prepare 1N solution of Na ₂ CO ₃ .	1
	m)	Write name of any QC chart.	1
	n)	What is Lymphocytopenia and Lymphocytophillia	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 in detail	7

Q-4		Attempt all questions	(14)
	a	Explain nephalometry in detail with diagram.	7
	b	Explain flame photometry in detail with diagram	7
Q-5		Attempt all questions	(14)
	a	Explain Levey-Jenning chart with any random example.	7
	b	Explain any 7 basic instruments requires in medical laboratories.	7
Q-6		Attempt all questions	(14)
	a	Explain tissue fixation process in detail.	7
	b	Explain blood groups in detail.	7
Q-7		Attempt all questions	(14)
	a	Explain types of Thalassemia in detail.	7
	b	Explain types of anemia in detail.	7
Q-8		Attempt all questions	(14)
•	a	What in Rh factor? Explain erythroblastosisfoetalis.	7
	b	Explain principle of blood transfusion.	7
		proprieta a contra de verte d	

