

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.

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| 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 |
| | l) 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 Lymphocytophilia | 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 nephelometry 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

