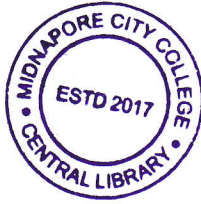


The West Bengal University of Health Sciences
M.Sc. MLT in Microbiology/ M.Sc. MLT in Biochemistry
1st Year January-February, 2023 Examination

Time: 3 hrs



Subject: Basic Medical Laboratory Science - I

Full Marks: 80

Attempt *all* questions**Group – A**

1. What is statistical quality control? Describe LJ chart and its application in pathological laboratory with example. 10

2. Write short note of the following : 2 x 5
 - a) External quality control.
 - b) Errors in pathological laboratory.

Group – B

3. What is chromatography? Write down the working principle and application of HPLC technique. 2+4+4

4. What are the requirements of sero-diagnostic test? Explain the principle of Widal test. 2+8

5. Write short note on the following : 2 x 5
 - a) Complement fixation test.
 - b) Hemagglutination technique.

Group – C

6. Answer *any one* from the following questions :
 - a) What are Accredited laboratories? Give a short note on ISO : 15189 : 2012. 3+7
 - b) Give a brief note on confidentiality of patient's information and test results and guidelines for laboratory reports. 10

7. Write a short note on : 1 x 5
CLSI Guidelines for clinical laboratories.

Group – D

8. Write short notes of the following: 3 x 5
 - a) Differences between Main Memory and Secondary Memory.
 - b) Different types of computers.
 - c) Different types of files for data processing in pathology laboratories.