

The West Bengal University of Health Sciences
M.Sc. MLT in Microbiology/ M.Sc. MLT in Biochemistry
1st Year August- September, 2022 Examination

Time: 3 hrs



Subject: Basic Medical Laboratory Science - I

Full Marks: 80

Attempt *all* questions**Group – A**

1. Define NABL and NABH. Describe the types of spillage and its corrective actions. What should be done when Quality Control fails? Give examples of regulatory standards for clinical and medical labs that were created to assist laboratories to maintain quality assurance? 3+3+2+2
2. Write short note: 2 x 5
 - a) CUSUM chart.
 - b) Total quality control framework of laboratory.

Group – B

3. Write two names of specific substrates for which there are specific enzyme conjugates used in ELISA. Write the application of electrophoresis. State the principle of Western blot. 2+4+4
4. State the principle of fluorescent technique. Describe haemagglutination technique. What is the full form of HPLC? 4+5+1
5. Write short notes : 2 x 5
 - a) Ion exchange chromatography.
 - b) Mantoux test.

Group – C

6. What is NABL? What are the aims and objectives of NABL? What is laboratory accreditation? What is the benefit of laboratories for NABL accreditation? 2+3+2+3
7. Write short notes : 5
 - a) CLSI guidelines.

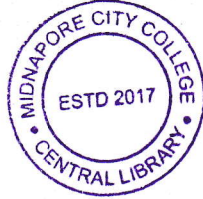
Group – D

8. Write short notes of the following: 3 x 5
 - a) CPU and ALU.
 - b) Computer Applications in Pathological laboratory.
 - c) Utility software.

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M.sc in Medical Laboratory Technology (Microbiology) Part -I August -
september, 2022,(Oral &practical) Examination.

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FM- 80



1. Write down the principle of CRP test. Perform a CRP test on provided sample and interpret your result. 15

2. Briefly write the principle and procedure of RA test. Perform a RA test on provided sample and interpret your result. 15

3. What is montoux test? How montoux test is performed? Write how the result is interpreted. 15

4. Write down the application of MS-office in pathological laboratories. 15

5. Lab notes book and viva voce. 10+10