

Roll No.

Total No. of Pages : 01

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M.Sc. MLS (Biochemistry) (Sem.-3)

AUTOMATION IN THE CLINICAL BIOCHEMISTRY LABORATORY

Subject Code : MMLT-304-18

M.Code : 76880

Date of Examination : 19-12-22

Time : 3 Hrs.

Max. Marks : 50

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT question.
2. Each question carries TEN marks.

1. What is ELISA? Describes its principle, application and write a brief note on ELISA washer?
2. Write detailed notes on :
 - a) PCR its principle and application and uses.
 - b) Describe principle and working of a cold chain refrigeration.
3. Write a detailed note on tumor markers. Discuss its clinical significance and applications.
4. Write notes on:
 - a) Sources of errors in detail.
 - b) Validation of the Machine.
5. Write various type of reagents used in Autoanalyzers. Differentiates b/w Semi-automated and Fully-automated analyzers.
6. What is centrifuge? Write its use and applications in clinical biochemistry.
7. Write detailed note on:
 - a) Hb electrophoresis
 - b) Colorimeter & its application.
8. Describe in detail the principle and working of Spectrophotometer. Explain its advantages clinical Biochemistry Laboratory.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.