

Roll No.

Total No. of Pages : 01

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M.Sc. MLS (Biochemistry) (2018 Batch) (Sem.-3)

AUTOMATION IN THE CLINICAL BIOCHEMISTRY LABORATORY

Subject Code : MMLT-304-18

M.Code : 76880

Time : 3 Hrs.

Max. Marks : 50

INSTRUCTIONS TO CANDIDATES :

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

- 1) What is an autoanalyser? Discuss various types of autoanalysers used in clinical biochemistry laboratory with their advantages and disadvantages.
- 2) What is RTPCR? Discuss its principle, procedure and various applications.
- 3) Write detailed notes on :
 - a) Hb electrophoresis
 - b) Validation of a machine
- 4) Describe in detail the principle and working of a spectrophotometer. What are its advantages over colorimeter?
- 5) Write notes on :
 - a) Significance of RPM and RCF
 - b) Quality assurance
- 6) Write a detailed note on tumor markers. Discuss their clinical significance.
- 7) Write notes on :
 - a) Chemiluminescence
 - b) Cold chain centrifugation
- 8) What is a flow cytometer? Discuss principle and working of a flow cytometer. Give some of its applications.

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.