

QP Code: 202383

Reg. No.....

**Second Year M.Sc. MLT Degree Regular/Supplementary Examinations  
April 2021  
(Biochemistry)**

**Paper VI - Diagnostic Biochemistry, Recent Advances in Clinical Chemistry and  
Biostatistics**

**Time: 3 hrs.**

**Max. marks: 100**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers*
- *Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw diagrams wherever necessary*

**Essays:**

**(10x10=100)**

1. Explain the metabolic derangement in diabetes mellitus.
2. Discuss the organization of a clinical chemistry laboratory.
3. Describe the maternal serum screening tests for fetal defect.
4. Discuss about cardiac troponins and its diagnostic importance
5. The basic concept and instrumentation of mass spectrometer
6. Discuss the analytical procedure for quantitation of barbiturate in blood
7. What are tumor markers. Discuss the enzymes and hormones as tumor markers.
8. Mention the components in renal calculus and write the procedure for analysis of renal calculus.
9. Explain precision and accuracy. Explain how you will select good quality reagent kits for your lab.
10. Explain the normal range of acid base parameters. Interpret the value in acid base disorders due to metabolic derangement.

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