

QP Code: 202383

Reg. No.....

**Second Year M.Sc. MLT Degree Regular/Supplementary Examinations
July 2025
(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 in detail the different mechanisms involved in maintaining blood pH.
2. What are carcinogens and give examples. What is the role of virus in the etiology of Cancer. Add a note on Ames test. (4+4+2)
3. Discuss in detail about Random access analysers.
4. What is the principle of mass spectrometry. Discuss about the different Ionization techniques used in Mass spectrometry. (4+6)
5. Define Clearance. Write in detail about the markers of Glomerular Filtration Rate. (2+8)
6. Discuss in detail about External Quality Assurance Services (EQAS).
7. Discuss about the pharmacological effects and analytical methods for the estimation of Barbiturates. (4+6)
8. Discuss the lab diagnosis and the preventive measures in AIDS. Add a note on Anti-HIV drugs. (3+3+4)
9. Discuss in detail about Fetoplacental function tests.
10. Discuss in detail the metabolic derangements in Diabetes Mellitus.
