

**Second Year M.Sc. MLT Degree Supplementary Examinations March 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. Discuss the biochemistry of ageing.
2. Discuss the method of analyzing any three common drugs in blood.
3. The newer biomarkers in cardiac diseases.
4. What are onco-suppressor genes. Discuss about p53 gene. (4+6)
5. Define Point-of-Care Testing (POCT). Mention the analytes which can be tested as POCT and discuss the benefits of POCT.
6. Mention the chronic complications of diabetes. How will you monitor the glycemic status in a diabetic patient.
7. Describe the procedure for the preparation of internal quality control serum in a clinical chemistry lab.
8. Define observed value and reference value and discuss the concept of health in relation to reference value.
9. List out the functions of liver and describe how the excretory function of liver is assessed using serum.
10. Mention the functions of cerebrospinal fluid and discuss the composition of CSF in health and diseases.
