QP Code: 202383	Reg. No
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Second Year M.Sc. MLT Degree Regular/Supplementary Examinations September 2024 (Biochemistry)

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

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. Classify liver function tests. Discuss in detail about the tests to assess the excretory functions of liver. (4+6)
- 2. What is proteinuria. Describe the different types of proteinuria and add a note on protein creatinine ratio. (1+7+2)
- 3. Discuss the renal mechanism for regulation of blood pH.
- 4. Explain the chronic complications of diabetes mellitus and add a note on long term monitoring of diabetes mellitus. (6+4)
- 5. Discuss about proficiency testing for quality control programs in clinical chemistry laboratory.
- 6. What is ageing. Discuss the theories related to ageing. (2+8)
- 7. Discuss the action of salicylates in pharmacological dose and in toxic dose. Write briefly about estimation of salicylate in serum. (6+4)
- 8. Name the muscle proteins. Describe cardiac troponins in detail and write briefly about its clinical relevance. (2+5+3)
- What are oncogenes and give examples. Describe in detail about the molecular mechanism of activation. (1+2+7)
- 10. What are acute phase proteins/ Mention the different types with examples and add a note on alpha 1 antitrypsin. (2+3+5)
