Code: 202383 Reg. No......

Second Year M.Sc. MLT Degree Regular/Supplementary Examinations February 2022 (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. Enumerate the functions of liver. Discuss the hepatic enzyme panel in various clinical conditions. (3+7)
- 2. Explain in detail about the first line of defence against acid load in the body
- 3. Describe the quality management & quality assurance in clinical chemistry laboratories.
- What is POCT. Mention the analytes which can be analyzed by using POCT devices.
 Discuss the analytical principles of single use strip tests. (2+3+5)
- 5. Explain in detail about the chi square test and its applications.
- Discuss about foetoplacental function tests.
- 7. Describe the performance criteria required for selection of a better quality fully automated clinical chemistry analyzer in a laboratory.
- 8. Mention the exogenous sources of Carbon monoxide. Describe the toxic effect when it is inhaled and add a note on the most accurate method for the estimation of carboxy haemoglobin. (2+5+3)
- 9. Explain the differences between normal cell and tumour cell.
- 10. Draw and label the structure of Human Immunodeficiency Virus. Write briefly about the laboratory analysis of HIV infection.
