

D.M.L.T.: Winter-2021
SUBJECT:-CLINICAL BIOCHEMISTRY

Day: Wednesday
Date: 15-12-2021

Time: 01:30 PM-04:30 PM
Max.Marks:-100

W-2840-2021

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to **RIGHT** indicate full marks.
- 3) Draw neat and labeled diagrams **WHEREVER** necessary.

- Q.1** What is normal fasting and post prandial blood glucose level? Mention the American Diabetic Association (ADA) criteria to label person is having diabetes mellitus. Discuss in detail regulation of blood glucose level (15)
- Q.2** Discuss Total Quality Management (TQM) in clinical laboratory. Add a note on Internal Quality Control in clinical biochemistry (15)
- Q.3** Enumerate Liver function Tests. Discuss tests based on excretory functions with clinical significance. (15)
- Q.4** Describe the physical characteristics of urine sample. Enumerate normal and abnormal constituents of urine. Explain qualitative tests for abnormal constituents of urine. (15)
- Q.5** Write notes on **ANY FOUR** (20)
- a) Centrifuge, oven and distillation apparatus
 - b) DNA: structure and functions
 - c) Lipid profile
 - d) Collection and preservation of blood and urine sample
 - e) Clearance test
- Q.6** Write notes on **ANY FOUR** (20)
- a) Glycosuria
 - b) Isoenzymes
 - c) Principle and applications of RIA, ELISA and CMIA
 - d) Abnormal hemoglobins
 - e) Automation in biochemistry laboratory
