

**D. M. L. T. : SUMMER - 2018**  
**SUBJECT : CLINICAL BIOCHEMISTRY**

Day : **Wednesday**  
Date : **06/06/2018**

**S-2018-3493**

Time : **2.00 P.M. TO 5.00 P.M**  
Max. Marks : 100

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**N.B.:**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat and labeled diagrams **WHEREVER** necessary.
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- Q.1** Define diabetes mellitus. Give an account of various laboratory investigations in Diabetes Mellitus. [15]
- Q.2** Describe the physical characteristics of urine sample. Enumerate normal and abnormal constituents of urine. Explain qualitative tests for abnormal constituents of urine. [15]
- Q.3** Enumerate the liver function tests. Describe the tests based on bilirubin metabolism. [15]
- Q.4** Discuss the diagnostic, therapeutic and analytical applications of enzymes. [15]
- Q.5** Write notes on **ANY FOUR** of the following: [20]
- a) Estimation and significance of SGPT
  - b) External quality control
  - c) Blood buffers
  - d) Water bath and incubator
  - e) Hyperuricemia
- Q.6** Write notes on **ANY FOUR** of the following: [20]
- a) Principles, types and applications of chromatography
  - b) Pipettes
  - c) Lipid profile
  - d) Estimation and significance of blood urea
  - e) Blood gas analyser

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