



D-4570

Seat No. _____

D. M. L. T. Examination

April / May - 2015

General Introduction of Biochemistry

Time : **3** Hours

[Total Marks : **100**

- Instructions :** (1) Figures to the **right** indicate full marks.
(2) Write answer of each section in **separate** answer sheet.
(3) Write answers to the point.

SECTION - I

- 1** Discuss Bilirubin metabolism. Explain liver function tests and its clinical pathologic correlation in detail. **15**

OR

- 1** Glucose tolerance test and role of glycosylated Hb in prognosis of diabetes mellitus. **15**
- 2** Write short notes on : (any **three**) **15**
- (a) Serum triglycerides
 - (b) Serum Amylase and Lipase
 - (c) Acid Phosphatase and its significance
 - (d) Quality Control in biochemical laboratory.
- 3** (a) Answer briefly : (any **six**) **12**
- (1) Methods of SGPT estimation.
 - (2) Albumin : Globulin ratio.
 - (3) Principle of kinetic method.
 - (4) Normal value of Serum Calcium.
 - (5) Normal value of Serum Creatinine and blood urea.
 - (6) Test for Ketone bodies in urine.
 - (7) Normal value of serum Cholesterol.

- (b) Expand following terms and explain : 8
(1) NABL
(2) LDH
(3) G6PD
(4) ELISA.

SECTION - II

- 4 Serum electrolytes. Its clinical significance and methods of estimation. 15

OR

- 4 Discuss functions, properties and clinical pathologic correlation and diseases associated with Plasma Proteins. 15

- 5 Answer briefly : (any **five**) 10

- (a) Normal value of LDL, VLDL, HDL.
(b) Centrifuges and their uses.
(3) Difference between Oven and Incubator.
(4) Pregnancy Test
(5) Principle of autoanalyzer.
(6) Disposal of infected blood.

- 6 Write notes on : (any **five**) 25

- (a) Troponin – its diagnostic importance
(b) Laboratory first aid
(c) Role of technician in maintenance of laboratory equipments.
(d) Electrophoresis
(e) Laboratory accidents and Hazards.
(f) Laboratory information system.
