



NAM-4570

Seat No. _____

D. M. L. T. Examination

March / April - 2017

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** Write glycolytic pathway and its clinical significance. **15**
Explain how glucose tolerance test is performed with clinical interpretation.

OR

- 1** Explain the principle of enzyme linked immunosorbent assay (ELISA) technique. Write in detail about thyroid function tests. **15**
- 2** Write short notes on : (any **three**) **15**
- (a) Liver enzyme profile
 - (b) pH meter
 - (c) Centrifugation technique
 - (d) Arterial blood gas analysis.
- 3** (a) Answer briefly : (any **six**) **12**
- (i) Benedict's test and its use
 - (ii) Methods of bilirubin estimation
 - (iii) Albumin:Globulin ratio and its significance
 - (iv) Functions of cholesterol
 - (v) Sample rejection criteria
 - (vi) Precautions taken prior blood sample collection
 - (vii) Normal values of lipid profile parameters

- (b) Expand following terms and explain. 8
- (i) NABL
 - (ii) SGPT
 - (iii) POCT
 - (iv) CLIA.

SECTION - II

- 4 Describe method for total protein and albumin estimation with clinical correlation. Write a note on electrophoresis. 15
- OR**
- 4 Explain method of creatinine estimation with clinical significance. Write in detail about urine analysis. 15
- 5 Answer briefly : (any **five**) 10
- (a) Mean, median and mode
 - (b) Criteria for diagnosing diabetes mellitus
 - (c) Waste disposal bags colour coding classification
 - (d) Name any ten pre-examination variables
 - (e) Write six classes of enzymes with example
 - (t) Write contents of first-aid box of laboratory with use.
- 6 Write notes on : (any **five**) 25
- (a) Internal quality control and its parameters
 - (b) Universal precautions
 - (c) Jaundice
 - (d) Cardiac biomarkers
 - (e) High pressure liquid chromatography
 - (f) Radioimmunoassays.
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