



MAL-4570

Seat No. _____

D. M. L. T. Examination

March / April - 2018

General Introduction of Biochemistry

Time : **3 Hours**]

[Total Marks : **100**

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

SECTION - I

- 1 Write on Quality control with internal and external quality control. Importance of NABL in laboratory medicine. **15**
- OR**
- 1 Clinical Importance of Isoenzyme. **15**
 - 2 Write short notes : (any **three**) **15**
 - (a) Chromatography
 - (b) Blood buffers
 - (c) HbA1C and its importance
 - (d) G6PD and its importance.
 - 3 (a) Answer Briefly : (any **six**) **12**
 - (i) Uri strip analysis and its importance
 - (ii) Importance of HDL-Cholesterol estimation
 - (iii) Use of alpha feto protein as a tumor marker
 - (iv) What is critical alert?
 - (v) What is renal threshold for glucose?
 - (vi) Why Type 2 Diabetes Mellitus is more common in obese patients?
 - (vii) Why LDH is high in hemolyzed sample?
 - (b) Expand following terms and explain : **8**
 - (i) ABG
 - (ii) ALP
 - (iii) GOD-POD
 - (iv) CK-MB

SECTION - II

- 4 Bilirubin Estimation and its importance in Jaundice. 15
- OR**
- 4 Abnormal urine analysis and its interpretation. 15
- 5 Answer briefly : (any **five**) 10
- (a) Principle of Colorimetry.
 - (b) Importance of Serum TSH estimation.
 - (c) Use of white colour waste disposal bag.
 - (d) How temperature can affect the sample transport?
 - (e) Importance of Urobilinogen in urine.
 - (f) Needle stick injury.
- 6 Write notes on : (any **five**) 25
- (a) Ketone body estimation in blood and urine and its importance.
 - (b) Role of serum cholesterol in atherosclerosis.
 - (c) Importance of serum albumin and A/G ratio.
 - (d) Importance of Urea estimation.
 - (e) Spillage in lab and measures to clean it.
 - (f) Serum CRP estimation and its importance.
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