



RX-4570

Seat No. _____

D. M. L. T. Examination

March - 2019

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 Explain Immunoassay techniques in detail. **15**

OR

1 Automation in laboratories. **15**

2 Write short notes : (any **three**) **15**

- (a) Electrophoresis
- (b) Differentiate hemolytic, hepatic and obstructive Jaundice
- (c) How do you Calibrate Pipette?
- (d) Difference between fully and semi-auto analyzer?

3 (a) Answer briefly : (any **six**) **12**

- (i) Why fasting blood sample is required in Thyroid function tests?
- (ii) Difference between Direct and Indirect Bilirubin
- (iii) Why serum appear milky after heavy diet?
- (iv) Why blood is collected in fluoride tube for glucose estimation?
- (v) Sample rejection criteria in Laboratory.
- (vi) Name of two tumor marker and disease in which they are elevated.
- (vii) Give examples of Transport proteins.

- (b) Expand following terms and explain : 8
- (i) BUN
 - (ii) NABL
 - (iii) SDS-PAGE
 - (iv) ALT

SECTION - II

- 4 Oral Glucose Tolerance Test : Indications, Contraindications, Procedure and Interpretation. 15

OR

- 4 Biomedical waste disposal rules 2016. 15

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

- (a) How will you give results of VLDL and HDL, if you have only Cholesterol, Triglycerides & LDL Cholesterol kits?
- (b) Importance of Serum ALP estimation.
- (c) Enumerate conditions affecting plasma uric acid level.
- (d) Why edema appears in patients of hypoalbuminemia?
- (e) Write down the causes of hypertriglyceridemia.
- (f) Microproteinuria

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

- (a) EQAS and its importance
 - (b) Vaccination in laboratory
 - (c) Amylase and lipase estimation and its importance in pancreatic function test
 - (d) Serum enzyme estimation in liver disease
 - (e) Glycated hemoglobin and its importance
 - (f) LJ graph and its importance.
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