



P-4570

Seat No. _____

**Diploma in Medical Laboratory Technology
(Yearly) Examination**

March / April – 2020

General Introduction of Bio-Chemistry

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 100

SECTION – I

- 1 Automation in clinical biochemistry laboratory. **15**
- OR**
- 1 Discuss various biochemical tests for diabetes mellities with specific emphasis on glycosylated Hb in prognosis. **15**
- 2 Write short notes : (any **three**) **15**
- (a) Calibration of Pipettes.
 - (b) Chromatography.
 - (c) Arterial blood gas analysis.
 - (d) Serum enzymes estimation in liver diseases.
- 3 (A) Answer in brief : (any **six**) **12**
- (a) Why LDH is high in hemolysed blood samples ?
 - (b) Principle of kinetic method.
 - (c) Sample rejection criterias in biochemistry laboratory.
 - (d) Name of 'Good cholesterol'. Why it is good ?
 - (e) What is critical alert ?
 - (f) Advantage of using fluoride vacutte for glucose estimation.
 - (g) Role of Alpha-feti protein as tumour marker.
- (B) Expand following terms and explain : **8**
- (a) NABL
 - (b) WDI
 - (c) BON
 - (d) VLDL

SECTION – II

4 Write on quality control with internal and external quality control. Discuss importance of NABL in laboratory medicine. 15

OR

4 Serum electrolytes methods of estimation and clinical significance. 15

5 Write notes on : (any five) 25

- (a) Cardiac Biomarkers.
- (b) Discuss laboratory hazards with safety measures.
- (c) Biomedical waste.
- (d) Role of technician in maintenance of laboratory equipments.
- (e) Proficiency testing.
- (f) Point of care testing (POCT)

6 Answer in brief : (any five) 10

- (a) Contents of first aid box in laboratory with uses.
- (b) Difference between fully and semi ante analyzer.
- (c) Difference between oven and incubator.
- (d) Advantages of using vacuttes for blood collection.
- (e) Normal values of :
 - Blood Urea
 - S. Creatinine.
- (f) Two most important tests for Pancreatic function test.