



**AAG-4570**

Seat No. \_\_\_\_\_

**D. M. L. T. Examination**

**April / May – 2016**

**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 Automation in Clinical Biochemistry Laboratory. 15  
OR  
1 Renal function tests. 15
- 2 Write short notes : (any three) 15  
(a) How to dispose following things: needle, gloves, syringe, reagent bottle, vacutte, dressing.  
(b) Collection of Gastric Juice  
(c) ELISA technique  
(d) How pH is regulated by kidney ?
- 3 (a) Answer briefly : (any six) 12  
(1) What to do after needle prick injury or exposure to biological fluid ?  
(2) What is the importance of different color coded bags ?  
(3) Why HDL is good cholesterol ?  
(4) What is monoclonal antibody and its use ?  
(5) Why HPLC is preferred now a days ?  
(6) Why unconjugated bilirubin cannot appear in the urine ?  
(7) Order of draw in blood sample collection.

- (b) Expand following terms and explain : 8
- (1) LICHART
  - (2) LIS
  - (3) SDS-PAGL
  - (4) BUS

**SECTION - II**

- 4 Oral Glucose tolerance test – Indication 15  
contraindication, procedure and interpretations.
- OR**
- 4 Enlist different tumor markers and mention the disease in 15  
which they are elevated.
- 5 Answer briefly : (any five) 10
- (a) Anion gap and its importance
  - (b) Why creatinine clearance is preferred over estimation of serum creatinine in elderly patients ?
  - (c) What is the importance of homocysteine in cardiac disease ?
  - (d) What is standard universal precaution ?
  - (e) Write the clinical condition in which blood can be appearing in urine ?
  - (f) HbA1C and its clinical significance.
- 6 Write notes on : (any five) 25
- (a) What is amino-transferase and write its diagnostic importance ?
  - (b) Laboratory Safety Measures
  - (c) Laboratory Investigation in case of Obstructive Jaundice
  - (d) Diagnostic use of enzymes
  - (e) Proficiency testing
  - (f) Form ferritin estimation and its importance.
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