

No. of Printed Pages : 4

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121916/031916

**1st Sem. / DMLT**

**Subject : Clinical Biochemistry - I**

Time : 3 Hrs.

M.M. : 100

### **SECTION-A**

**Note:** Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1
- a) Define Beer Lambert's Law.
  - b) Define Calibration
  - c) Write units of Density in S.I. system
  - d) Define Descriptive Biochemistry.
  - e) 1 litre = ----- ml & 1 kg = ----- gm.
  - f) Write names of 2 methods of sterilization.
  - g) ----- is used to remove difficult stains from glassware.
  - h) What are precautions to be taken while using distillation unit.

(1)

121916/031916

- i) Why dirty glassware should not be left to dry out.
- j) Why new glassware should be soaked in dil HCl before washing.
- k) What is early morning urine sample.
- l) Expand CSF & PPF.
- m) Define Centrifuge.
- n) Define Distillation unit.
- o) Write names of different types of Balances.
- p) What are S.I. units & their use.
- q) What is Emulsifier.
- r) Write examples of Protein precipitating reagents.

### **SECTION-B**

**Note:** Short answer type questions. Attempt any ten parts 10x4=40

- Q.2
- i) Explain procedure of preparation of PPF.
  - ii) Explain reaction involved in making of PPF.

(2)

121916/031916

- iii) Write principle & use of Centrifuge.
- iv) Define Deionizer what are its advantages.
- v) Write principle of Flame photometer.
- vi) Explain working of Analytical balance.
- vii) Write precautions to be taken for safe keeping of blood glucose test meter.
- viii) Draw diagrams of any 4 glassware.
- ix) How do detergents clean.
- x) Explain soap as cleaning agent.
- xi) Write Importance of Biochemistry.
- xii) Write names of different methods of collection of blood sample. Explain any one.
- xiii) Explain containers used for collection of urine
- xiv) Explain preservation of urine.
- xv) What kind of changes can occur if urine sample is not preserved.

## SECTION-C

**Note:** Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 Define serum. Explain procedure for separation of Serum.
- Q.4 Explain cleaning, drying & storage of glassware.
- Q.5 Explain Electronic Balance.
- Q.6 Explain Working & use of spectrophotometer.
- Q.7 Write procedure for testing of glucose using glucometer.