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**2nd Semester/ DMLT, DMLT  
(For Speech & Hearing Impaired)  
Subject : Clinical Biochemistry**

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Which is not an anticoagulant.
- a) EDTA
  - b) Double oxalate
  - c) ACD
  - d) Sodium Tungstate
- Q.2 Which hormone is produced by Beta Cells of the pancreas.
- a) Insulin
  - b) Glucagon
  - c) Adrenaline
  - d) Adrenocortical
- Q.3 Expand PFF.
- a) Paper free filtrate
  - b) Protein free filtrate
  - c) Protein for filtrate
  - d) None of then
- Q.4 Cause of Gout.
- a) Decrease in protein metabolism
  - b) Hormone imbalance
  - c) Overproduction of uric acid
  - d) Renal dysfunction

- Q.5 Joints fluid of the body  
 a) Blood                      b) Synovial Fluid  
 c) Urine                        d) Thoracic fluid
- Q.6 Volumes of CSF in body is?  
 a) 10-20 ml                    b) 50-60 ml  
 c) 80-90 ml                    d) 100-200 ml

### SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Define hyperuricemia.  
 Q.8 Write the Normal value of glucose.  
 Q.9 Expand BCG.  
 Q.10 Name any one biological anticoagulant.  
 Q.11 Write the Normal value of blood protein.  
 Q.12 Define Gout.

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Write down importance of biochemistry.  
 Q.14 Write short note on renal threshold.  
 Q.15 Write down the advantage and disadvantage of EDTA.  
 Q.16 Differentiate between serum and plasma.  
 Q.17 Explain various types of urine sample.

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- Q.18 Draw diagram of various volumetric apparatus.  
 Q.19 Discuss the procedure of urea estimation.  
 Q.20 Explain various hormones regulating blood glucose level.  
 Q.21 Write down clinical importance of protein estimation.  
 Q.22 Write down formation of urea.

### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Write the principle, normal range and clinical significance of Henry caraway's method.  
 Q.24 Write down collection and preservation of various biological fluid with their importance.  
 Q.25 Write down principles of GOD & POD method, orthotolidine method and Folin-Wu method for glucose estimation.

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