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181917

**1st Year / MLT**

**Subject:- Clinical Biochemistry**

Time : 3Hrs.

M.M. : 60

**SECTION-A**

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

Q.1 Urea metabolism is end product of \_\_\_\_\_ metabolism.

- a) Glucose
- b) Protein
- c) Lipid
- d) Uric acid

Q.2 In hyperuricemia blood uric acid level \_\_\_\_\_

- a) increases
- b) decreases
- c) remain same
- d) no effect

Q.3 Jaffe's reaction is done for testing

- a) Serum protein
- b) Serum urea
- c) Serum uric acid
- d) Serum creatinine

Q.4 Name of method of serum chloride estimation

- a) alkaline picrate
- b) o-toluidine
- c) henry caraway
- d) schales & schales

Q.5 Full form of QAS in Biochemistry

- a) Quality Assurance System
- b) Quantum assessment system
- c) Quality Analytic System
- d) Quantum Analytic System

Q.6 BCG method is used to test

- a) Urea
- b) Albumin
- c) Globulin
- d) Glucose

**SECTION-B**

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

Q.7 Define Azotonia.

Q.8 Name principal cation of intra-cellular fluid.

(1)

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(2)

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Q.9 Gout is associated with increase of \_\_\_\_\_ level in blood.

Q.10 Name types of quality control in lab.

Q.11 Write the normal value of serum creatinine.

Q.12 Write the Names of two RFT's.

Q.19 Write down steps of urea metabolism.

Q.20 Write down principle of Berthelot method.

Q.21 Write down clinical significance of uric acid.

Q.22 Write down difference between extra cellular and intra cellular fluid.

### **SECTION-C**

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

Q.13 Write the formula for creatinine clearance conditions.

Q.14 Name the clinical conditions in which blood urea level increases.

Q.15 Explain pre-analytical quality control.

Q.16 Explain the principle of K<sup>+</sup> estimation.

Q.17 Write down the procedure of Henry Caraway's method for uric acid determination.

Q.18 Write down various functions of plasma proteins.

### **SECTION-D**

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

Q.23 Write down urea cycle in detail with diagrammatic representation.

Q.24 Write down principle, normal value and procedure of serum proteins.

Q.25 Write short note on

a) External Quality Control

b) Clinical significance of A/G ratio