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Roll No. .....

1st Year / MLT

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 the route for urea excretion

a) Gastrointestinal tract

b) Skin

c) Kidney

d) Liver

Q.2 Normal range of blood urea is

a) 2-7 mmol/L b) 7-10 mmol/ L

c) 11/15 mmol/ L d) 1-3 mmol/ L

Q.3 Creatinine is largely formed in_____ part of body.

a) Liver b) Muscle

c) Kidney d) Bone

Q.24 Explain quality assurance in biochemistry lab as per national standards in detail.

Q.25 Write short note on :

a) Azotaemiaa

b) Hyperuricemia

c) Primary Gout

d) Standard deviation

Q.4 Biuret method is used for estimation of

a) Glucose b) Urea

c) Uric acid d) Protein

Q.5 Gouty arthritis is associated with crystal deposited in body parts.

a) Brain b) Skin

c) Joints d) Lungs

Q.6 Enzyme used in uric acid estimation.

a) Uricase b) Hydrolase

c) Amylase d) Urease

SECTION-B

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

Q.7 Name two plasma proteins.

Q.8 Write down normal range of uric acid.

Q.9 Write down two functions of electrolytes.

Q.10 DAM method is used for estimation of which component.

Q.11 Creatinine react with alkaline picrate reagent to form _____ colour.

Q.12 Define hyponatremia.

SECTION-C

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

Q.13 Write down clinical importance of serum proteins.

Q.14 Write the principle of DAM method.

Q.15 Draw well labelled diagram of Krebs henseleit cycle.

Q.16 Write down procedure of alkaline picrate method.

Q.17 Write down normal range of total protein, albumin, globulin and albumin and globulin ratio.

Q.18 Explain clinical importance of sodium ion.

Q.19 Write down principal of uric acid estimation by enzymatic method.

Q.20 Explain analytical factors of quality control.

Q.21 What are electrolytes. how they are useful to our body.

Q.22 Write down clinical significance of uric acid.

SECTION-D

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

Q.23 Write down principal, procedure and clinical significance of urea estimation.