

No. of Printed Pages : 4
Roll No.

181917

1st Year / MLT
Subject : Clinical Biochemistry

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note:Objective type questions. All questions are compulsory (10x1=10)

- Q.1 Uric acid is _____.
- Q.2 ISO 14000 deals with_____.
- Q.3 Quality control measures enhance efficiency of the laboratory. (True/False)
- Q.4 Concentration of albumin is more as compared to globulin in blood.(True/False)
- Q.5 Reference value of K^+ in blood is _____.
- Q.6 In nephrotic syndrome _____ is excreted in urine.
- Q.7 Write the full form of QAS.

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SECTION-B

Note:Very short answer type questions. Attempt any 5 questions out of 7 questions. 5x2=10

- Q.11 Define urea.
- Q.12 Write any two methods for estimation of blood creatinine.
- Q.13 If conc. of Albumin (A) is 60 g/dl and conc. Globulin (G) is 40 g/dl, calculate A:G.
- Q.14 Write the reference value of chloride ions in blood.
- Q.15 Define quality control.
- Q.16 Calculate S.D. if $n=30$ and sum of difference of each individual test from the mean is 90.
- Q.17 Differentiate between accuracy and precision.

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SECTION-C

Note: Short answer type questions. Attempt any six questions out of eight questions. 6x4=24

- Q.18 Describe the principle of diacetyl monoxime (DAM) method for blood urea estimation.
- Q.19 Write the procedure of serum creatinine estimation.
- Q.20 Write the clinical importance of Na⁺ and K⁺ estimation in blood.
- Q.21 List the reference values of total serum proteins, serum albumin and serum globulin.
- Q.22 Name the method for serum uric acid estimation and write its procedure.
- Q.23 Comment on "Quality Assurance in biochemistry laboratory".
- Q.24 Write the clinical importance of serum urea estimation.
- Q.25 Classify proteins with examples.

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SECTION-D

Note: Long answer type questions. Attempt any 2 questions out of 3 questions. 2x8=16

- Q.26 Explain formation and excretion of urea in detail.
- Q.27 Illustrate the principle, procedure and clinical significance of serum uric acid estimation.
- Q.28 (a) Describe internal quality assurance.
(b) Describe external quality assurance.

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