

No. of Printed Pages : 4

Roll No.

121943/031943

4th Sem. / MLT

Subject : Clinical Biochemistry-IV

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1 CSF is collected by _____.
- Q.2 Urinometer is used to measure urine relative mass density. (T/F)
- Q.3 Normal range of CSF glucose is _____.
- Q.4 Ketonuria is a condition in which ketone bodies are present in urine. (T/F)
- Q.5 Bence Jones Proteins are found in multiple myeloma disorder. (T/F)
- Q.6 Expand TLC.
- Q.7 Benzidine test is used to detect faecal fat.
- Q.8 Give the normal values of T_{SH} .

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Q.9 Explain RIA.

Q.10 The test used to detect glucose in urine is _____.

SECTION-B

Note: Very short answer type questions. Attempt any ten questions out of twelve questions. 10x2=20

- Q.11 Give the clinical significance of urine examination.
- Q.12 Name the test used for faecal fat determination.
- Q.13 The black colour of stool may be due to _____.
- Q.14 Write the composition of Rothera's mixture.
- Q.15 Differentiate between stationary and mobile phase.
- Q.16 Give two applications of electrophoresis.
- Q.17 Name the important thyroid hormones and give their normal values.

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Q.18 What are tumor markers? Name two tumor markers.

Q.19 What is glycosuria?

Q.20 Write a note on urine preservatives.

Q.21 Define automation.

Q.22 Name the test used for estimation of urobilinogen in urine.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. 8x5=40

Q.23 Explain various types of automated systems used in biochemistry laboratory.

Q.24 Write short note on Pandy test.

Q.25 What is occult blood? How is it detected?

Q.26 Describe the normal composition of urine.

Q.27 Write the principle of paper chromatography.

Q.28 Give the principle of RIA.

Q.29 Write the composition of CSF.

Q.30 Explain the principle of Benedict's test for glucose estimation in urine.

Q.31 What is the clinical significance of synovial fluid estimation?

Q.32 Define proteinuria.

SECTION-D

Note: Long answer type questions. Attempt any three questions out of four questions. 3x10=30

Q.33 Explain the chemical examination of urine.

Q.34 Explain the principle and procedure for electrophoresis.

Q.35 Explain the physical characteristics and chemical composition of stool.

Q.36 Explain the principle, procedure and clinical significance of protein determination in CSF.

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