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**4th Sem / DMLT  
Subject:- Clinical Biochemistry - IV**

Time : 3Hrs.

M.M. : 100

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

Q.1 Normal value of TSH is

- a) 0.5-4.0ml U/L
- b) 1-4ml U/L
- c) 3.0-4.5ml U/L
- d) 2.5-6ml U/L

Q.2 In which process mobile phase move over stationary phase

- a) Chromatography
- b) Electrophoresis
- c) Oncogenesis
- d) none of above

Q.3 Normal value of glucose in C.S.F

- a) 15-45 mg/dl
- b) 45-80 mg/dl
- c) 30-45 mg/dl
- d) 15-35 mg/dl

Q.4 When urine is excreted in excess amount is called

- a) Oliguria
- b) Ketouria
- c) Polyuria
- d) None of above

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Q.5 Peritoneal fluid is collected from

- a) Lungs
- b) Joints
- c) Peritoneal Cavity
- d) Heart

Q.6 Which of the following should not be the constituent of urine

- a) Hemoglobin
- b) creatinine
- c) urea
- d) Pus cells

Q.7 When glucose is present in urine is called

- a) Glucouria
- b) Glycemia
- c) glucaemia
- d) None of above

Q.8 A condition in which thyroid gland doesn't produce enough thyroid hormone

- a) Hypothyroidism
- b) Thyroidism
- c) Hyperthyroidism
- d) None of above

Q.9 CSF sample is collected for examination of

- a) Brain
- b) Kidney
- c) Heart
- d) Lungs

Q.10 TSH stands for

- a) Thyroid secreted hormone
- b) Thyroid standard hormone
- c) Thyroid stimulating hormone
- d) None of above

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## **SECTION-B**

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

- Q.11 Mention the normal range of albumin in urine?
- Q.12 Give the safety measures to be taken at the time of sample collection for biochemistry tests?
- Q.13 Full form of TSH is \_\_\_\_\_.
- Q.14 Define chromatography.
- Q.15 Benedict's test is done for \_\_\_\_\_?
- Q.16 What is mobile phase in electrophoresis?
- Q.17 Give the name of two auto analyzers?
- Q.18 Expand GLC.
- Q.19 List the symptoms of Diabetes?
- Q.20 What is hematuria?

## **SECTION-C**

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Write a note on thyroid function test?
- Q.22 What is occult blood?
- Q.23 Write the composition of CSF?
- Q.24 Enlist the clinical significance of  $\text{Na}^+$  and  $\text{K}^+$  in urine.
- Q.25 Write a note on tumor markers?

- Q.26 Write clinical importance of stool examination?
- Q.27 Explain the theory of paper chromatography?
- Q.28 Give the procedure of Benedict's test for glucose estimation in urine?
- Q.29 Differentiate between transudates and exudates?
- Q.30 Write a note on collection and processing of synovial fluid?
- Q.31 What are auto analyzers classify them?
- Q.32 Write the clinical significance of glycosuria?
- Q.33 How we can detect ketone bodies in urine?
- Q.34 Give the clinical importance of urine examination.
- Q.35 Write a brief note on goiter.

## **SECTION-D**

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain the chemical examination of CSF?
- Q.37 Give in detail about the automation in biochemistry?
- Q.38 Explain about the different biological fluids?