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Roll No. ....

**4th Sem / DMLT, DMLT (For Speech and Hearing Impaired)**

**Subject : Analytical Clinical Bio-Chemistry**

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

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

Q.1 Normal urine primarily consists of

- a) Water , urea and sodium chloride
- b) Water , protein , bilirubin
- c) Water , urea, protein
- d) All of above

Q.2 The centre of the kidney where urine collects before leaving the kidneys is

- a) proximal tubule      b) Distal tubule
- c) Glomerulus            d) Renal pelvis

Q.3 Urine osmolality is related to

- a) pH                    b) Filtration
- c) Specific gravity     d) Volume

Q.4 Stool sample is collected \_\_\_\_\_.

- a) On fasting            b) Randomly
- c) At night              d) Early morning

Q.5 Presence of RBC in urine is detected by

- a) Physical examination
- b) Chemical examination
- c) Microscopic examination
- d) None of above

Q.6 Chromatography is a physical method that is used to separate \_\_\_\_\_.

- a) Simple mixtures    b) Complex mixtures
- c) Viscous mixtures    d) Metals

**SECTION-B**

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

Q.7 Define albuminuria.

Q.8 Write the name of preservatives used for stool examination.

Q.9 Expand GFR.

Q.10 Write the pH of normal urine .

Q.11 Expand HPLC?

Q.12 Define auto-analyzer?

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## **SECTION-C**

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

- Q.13 Write the procedure for detection of glucose in urine.
- Q.14 Write the principle and clinical significance of bilirubin in urine.
- Q.15 Write the principle for urea clearance test.
- Q.16 Write the principle and normal range of creatinine clearance test.
- Q.17 Write down the clinical significance of faecal fat test.
- Q.18 Write the procedure for separation of serum protein by electrophoresis.
- Q.19 Explain the procedure of thin layer chromatography.
- Q.20 Write short note on anti-thyroid peroxidase test.
- Q.21 Explain the centrifugal auto-analyzer.
- Q.22 Write down the short note on thyroid function test.

## **SECTION-D**

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

- Q.23 Explain in detail about composition and analysis of urine.
- Q.24 Write the principle and interpretation of occult blood detection in stool specimen.
- Q.25 Write short note on :
  - a) Classification of Auto-Analyzer
  - b) Gas liquid chromatography (GLC)