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**4th Semester**  
**DMLT, DMLT (For Speech & Hearing Impaired)**  
**Subject : Analytical Clinical Biochemistry**

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

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

- Q.1 Chromatography is a physical method that is used to separate:-
- a) Simple mixture
  - b) Complex mixture
  - c) Viscous mixture
  - d) Heterogeneous mixture
- Q.2 Presence of hidden RBC in urine is detected by:-
- a) Physical examination
  - b) Chemical examination
  - c) Microscopic examination
  - d) Radiological examination
- Q.3 Intracellular fluid contains majority of cation is:-
- a) Calcium
  - b) Magnesium
  - c) Potassium
  - d) Iron

Q.4 Role of dialyzer in continuous flow analyzer is:-

- a) Separate large protein
- b) Separate sodium
- c) Separate glucose
- d) Separate electrolyte

Q.5 Hyperthyroidism is due to:-

- a) Increased metabolic rate
- b) Increased gluconeogenesis
- c) Enlargement of thyroid gland
- d) All of above

Q.6 Urine osmolality is related to:-

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

### SECTION-B

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

Q.7 Expand RFT & TSH.

Q.8 Mention two abnormal constituent of urine.

Q.9 What is occult blood.

Q.10 Define chromatography.

Q.11 Name two electrolytes present in human body.

Q.12 Define ketonuria.

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### SECTION-C

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

Q.13 Describe the normal composition of urine.

Q.14 What is the clinical significance of stool examination.

Q.15 Write the types of Autoanalyzers and Explain in brief.

Q.16 Explain clinical significance of Renal function test.

Q.17 Explain defecation of occult Blood in stool.

Q.18 Write the procedure urea clearance test.

Q.19 Write down principle of electrophoresis.

Q.20 Write down theory of chromatography.

Q.21 Define and write the application of Biochemistry Auto analyzers.

Q.22 Write short note on glycosuria.

### SECTION-D

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

Q.23 Describe the clinical importance of thyroid hormones in detail and separately.

Q.24 Write the procedure for qualitative examination of sugar, bile salts and proteins in urine.

Q.25 Write down procedure and application of gel electrophoresis.

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