

No. of Printed Pages : 4

221945

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

(1)

221945

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?

(2)

221945

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.

(3)

221945

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)

(4)

221945