Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 02

Total No. of Questions : 11

M.Sc (Medical Microbiology)   (Sem.- 1)
CLINICAL BIOCHEMISTRY
Subject Code : MMB-103-21
M.Code : 91451
Date of Examination : 19-01-2023

Time : 3 Hrs.   Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :
1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains EIGHT questions carrying FIVE marks each and students have to attempt any SIX questions.
3. SECTION-C will comprise of two compulsory questions with internal choice in both these questions. Each question carries TEN marks.

SECTION-A

1. **Answer the following :**

   a. What do you mean by fatty liver?

   b. Define cancer and its type.

   c. Write the metabolic function of kidney.

   d. Enlist various inborn errors of protein.

   e. Give the bio-significance of serum creatinine.

   f. What do you mean by atherosclerosis?

   g. Give signs of cystinuria.

   h. Write about Fabry's disease.

   i. What are functions of carbohydrates?

   j. How cancer migrates from one place to other place in body?

SECTION-B

2. Define carbohydrates. Classify them. Write about their metabolism and functions.

3. Give the metabolic and excretory functions of kidney. Write about A/G ratio and clearance tests.

4. Explain the etiology of diabetes mellites.

5. Discuss about the homocystinuria. Also comment on Gaucher's disease.

6. Write the determination of serum transaminase and total protein.

7. Comment on metabolic reaction of proteins.

8. What is oncogenes? Discuss various biochemical changes in cancer.

9. Comment on nutritional deficiency of vitamins. How it can be fulfilled?

SECTION-C

10. What is cancer? Describe its types. How it progresses?

OR

Write about the biochemistry of diabetes mellitus and atherosclerosis.

11. Discuss the inborn defects of carbohydrates metabolism.

OR

Write a note on liver functioning tests.

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.