

Roll No.

Total No. of Pages : 02

Total No. of Questions : 11

B.Sc. (Cardiac Care Technology) (Sem.-1)

BASICS OF BIOCHEMISTRY-I

Subject Code : BCCT 103-21

M.Code : 91418

Date of Examination : 19-01-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A** is **COMPULSORY** consisting of **EIGHT** questions carrying **TWO** marks each.
2. **SECTION-B** contains **EIGHT** questions carrying **FOUR** 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. Write briefly:

- Draw the well labelled structure of ribosomes.
- Write the function of endoplasmic reticulum.
- What do you understand by mucopolysaccharides?
- What are the functions of calcium and phosphorous minerals?
- What do you mean by conjugated proteins?
- Write the role of vitamin A in body.
- Explain the role of lipids in body.
- Define Gluconeogenesis.

SECTION-B

2. What are carbohydrates? Give details of polysaccharides.
3. Explain the role of mitochondria and nucleus along with their structures.
4. What are lipids? Classify them and write their biological role.
5. What are amino acids? Classify them and write their biological role.

6. Write a note on clinically important enzymes.
7. Write a brief note on biological oxidation.
8. Explain in brief various events taking place in glycolysis.
9. Write a note on Diabetes Mellitus and its complications. ,

SECTION-C

10. Discuss in detail about various steps involved in TCA cycle.

OR

Write a detailed note on fat soluble vitamins and their functions in the body.

11. Write an exhaustive note on Respiratory chain.

OR

Classify enzymes. Discuss various mechanisms of actions of enzymes.

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.