

S.NO: 22N1- UBI

Course Code: BUA

A.D.M.COLLEGE FOR WOMEN, NAGAPATTINAM

(AUTONOMOUS)

B.Sc (Biochemistry) Degree Examination

I Semester – November – 2022

CC I - BIOMOLECULES

Time: 3 hours

Maximum Marks: 75

Section -A

10X2=20

Answer **ALL** the Questions

1. Define homopolysaccharides.
2. Give any two examples for disaccharide.
3. Define isoelectric point.
4. List out any two essential aminoacid.
5. What is PUFA?
6. Name any two essential fatty acid.
7. List out two pyrimidine bases.
8. Define Chargaff's rule.
9. List out any two fat soluble vitamins.
10. Name any two sources for Calcium.

Section –B

5X5=25

Answer **ALL** the Questions

11. a) Write two isomeric forms of glucose.

(or)

b) Enumerate the reactions of carbohydrates based on aldehyde group.

12. a) Write about the classification of amino acid based on functional group.

(or)

b) Explain denaturation and renaturation of protein.

13. a) List out any five properties of fatty acid.

(or)

b) Describe the structure and three functions of Cholesterol.

14. a) List out three types of DNA and give its properties.

(or)

b) Draw the structure of purine and pyrimidine bases.

15. a) Describe the structure, occurrence, two functions and one deficiency symptom of Vitamin A.

(or)

b) Explain the structure, occurrence, two functions and one deficiency symptom of Sodium.

Section -C

3 X 10 = 30

Answer any **THREE** Questions

16. Write about occurrence, structure, and two functions of homopolysaccharide such as Starch and glycogen.
17. Discuss about the classification of Protein.
18. Write about classification , five properties and five functions of fatty acid.
19. Explain Watson and Crick model of DNA.
20. Give the sources, three functions and two deficiency symptoms of water soluble vitamin B.

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