

**S.NO: 22N1- UBI**

**Course Code: BUA1**

**A.D.M.COLLEGE FOR WOMEN, NAGAPATTINAM**

**(AUTONOMOUS)**

**B.Sc (Biochemistry) Degree Examination**

**III Semester – November – 2022**

**AC IV – BIOLOGY I**

**Time: 3 hours**

**Maximum Marks: 75**

**Section –A**

**10X2=20**

Answer **ALL** the Questions

1. Draw the structure of glucose.
2. Define Vanderwaals force.
3. What is osmosis?
4. Mention any two differences between symport and antiport.
5. List the two functions of golgi bodies?
6. What are the four phases of the cell cycle?
7. Define gametes.
8. Define ageing process.
9. What is double fertilization?
10. Write the two types of meristem.

**Section -B**

**5X5=25**

Answer **ALL** the Questions

11. a) Give note on any five functions of carbohydrates.

**(or)**

b) Give notes on any two compound lipids.

12. a) Discuss about active transport.

**(or)**

b) Write about Ion channels.

13. a) Explain the structure and three functions of mitochondria.

**(or)**

b) Write note on peroxisomes.

14. a) Explain the formation of germ layers .

**(or)**

b) Write on apoptosis.

15. a) Analyze any five factors influencing in germination process.

**(or)**

b) Explain the process of flowering in a plant.

**Section -C**

**3 X 10 = 30**

Answer any **THREE** Questions

16. Enumerate the structure of protein.
  
17. Discuss about four models of plasma membrane.
  
18. Write notes on cell cycle.
  
19. Explain the process of Embryogenesis.
  
20. Describe the organization of plant parts.

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