

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

**Course Code: BBG**

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

**(AUTONOMOUS)**

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

**V Semester – November - 2022**

**CC VII – INTRODUCTION TO ENZYMOLOGY**

**Time: 3 hours**

**Maximum Marks: 75**

**Section –A**

**10X2=20**

Answer **ALL** the Questions

1. What is IUBMB?
2. Define turnover number.
3. What is chromatography?
4. What is enzyme purity?
5. What is enzyme substrate complex?
6. Define feedback inhibition.
7. Define cofactor.
8. Define  $V_{max}$ .
9. State any four uses of protease.
10. What is immobilization?

**Section -B**

**5X5=25**

Answer **ALL** the Questions

11. a) Classify enzymes based on type of reactions that they catalyze.

**(or)**

b) Explain specificity of an enzyme.

12. a) Explain the techniques involved during enzyme crystallization.

**(or)**

b) How does separate the enzymes based on molecular size?

13. a) Describe the mechanism of enzyme catalysis.

**(or)**

b) Discuss the mechanism of feedback inhibition.

14. a) What are the any five factors that influence enzyme action? Discuss.

**(or)**

b) Differentiate competitive and non-competitive enzyme inhibition.

15. a) Explain the applications of enzymes in medicine.

**(or)**

b) What are the applications of immobilized enzymes? Discuss.

**Section -C**

**3 X 10 = 30**

Answer any **THREE** Questions

16. Discuss the structure and five function of any two coenzyme.
17. Enumerate the methods involved in the isolation and purification of enzymes.
18. Discuss the models of enzyme substrate interaction.
19. Derive M.M equation. Write the significance of  $K_m$  value.
20. Write any five industrial applications of enzymes.

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