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D.K.M.COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1
SEMESTER EXAMINATIONS
NOVEMBER - 2017
ENZYMES AND ENZYME TECHNIQUES

15CBC5A

Time : 3 Hrs

Max.Marks : 75

SECTION-A (10 x 2 =20)

Answer ALL the questions.

1. Define marker enzyme.
2. What are enzyme units?
3. Give the significance of Km.
4. What is optimum temperature?
5. Define Metalloenzymes.
6. What are vitamin and non - vitamin co - enzymes?
7. What is enzyme specificity?
8. Define active site.
9. What is meant by abzymes?
10. What are designer enzymes?

SECTION-B (5 x 5 =25)

Answer any FIVE of the following questions.

11. Explain the intracellular localization of enzymes.
12. Describe the isolation and purification of enzymes.
13. Discuss about the competitive and non competitive inhibition with suitable example.
14. Write an account on the coenzymic function of TPP.
15. Describe multienzyme system with example.
16. What is ribonuclease? Explain its mechanism of action.
17. Describe biosensors and its types.
18. Explain the role of enzymes used in pharmaceutical industries.

SECTION-C (3 x 10 =30)

Answer ALL the questions.

19. (a) Describe the nomenclature and classification of enzymes.

(Or)

(b) Derive Michaelis – Menten equation.

20. (a) Explain the structure and function of PLP.

(Or)

(b) Discuss the mechanism of action of chymotrypsin.

21. (a) Describe the methods of immobilization of enzymes and its applications.

(Or)

(b) What are isoenzymes? Give their clinical significance.

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