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**DHANALAKSHMI SRINIVASAN COLLEGE
OF ARTS & SCIENCE FOR WOMEN
(AUTONOMOUS)**
(For Candidates admitted from 2020-2021 onwards)



PG DEGREE EXAMINATIONS APRIL - 2021

M.Sc., - BIOCHEMISTRY

ENZYMOLOGY

Time: 3 Hrs

Max.Marks: 75

PART - A

CHOOSE THE CORRECT ANSWER

(10X1=10)

1. Enzymes are classified into
a).Two b).Four c).Three d).Six
2. .SI unit for enzyme activity
a).Bel b).mho c).Hertz d).katal
3. Non – protein organic part of the enzyme
a).Co- factor b). Co enzyme c). Apo enzyme d).Iso enzyme
4. The temperature at which the maximum activity of the enzymes occurs
a).Optimum temperature b).Maximum temperature
c).Minimum temperature d).None
5. Which of the following is not a Co enzyme
a).NAD b).FAD c). NADP d).MN++
6. Feedback inhibition means
a).Initial product inhibition b).End product inhibition
c).Enzymatic inhibition d). All of them.
7. Ping- pong reaction is other name for
a).Single substrate reaction b).single –displacement bi substrate reaction
c). Double– displacement bi substrate reaction d). Lysine
8. Which of the following is not a method of immobilization
a).Entrapment b). ionic bonding c).Adsorption d).Encapsulation
9. Enzyme reduces its potential utility in the treatment of metabolic diseases
a).Biocatalist b).Antigenic c). Effective d). All the above
10. Enzyme complex involved in alcoholic fermentation
a) Zymase b) invertase c) Lipase d) Amylase

PART- B

ANSWER ALL THE QUESTIONS

(5X7=35)

11. a) Give an account on enzyme nomenclature.

(OR)

b) Explain in lock and key model of enzyme action.

12. a) Explain LB plot.

(OR)

b) Explain the mechanism of action of chymotrypsin

13. a) Briefly explain Allosteric enzymes.

(OR)

b) Write short note on feedback inhibition.

14. a) Give a short on multi enzyme complex.

(OR)

b) Write note on biosensors?

15. a) List out the sources and applications of Amylase.

(OR)

b) What are anti- inflammatory agents?

PART - C

ANSWER ANY THREE QUESTIONS

(3X10=30)

16. Discuss in IUB classification of enzymes.

17. How will you derive Michelis- Menton equation?

18. Briefly explain the reversible and irreversible inhibition and its types.

19. Give an account on mechanism of action of regulation of pyruvate dehydrogenase.

20. Explain the applications of enzymes in industry and medicine.