St. Joseph's College of Arts & Science (Autonomous) Cuddalore – 607001

BC303S-ENZYME

SECTION - A

1. What is coenzyme?
2. What is Holoenzyme?
3. Give an example of competitive inhibition
4. What is competitive inhibition?
5. What is Enzyme precursor?
6. What is Allosteric site?
7. Define P:O ratio.
8. What is Q10?
9. What is Debranching enzyme?
10. What is the importance of Line weaver Burk equation?
11. Write the function of Coenzyme Q.
12. Write the name of the reaction inhibited in thiamine deficiency?
13. Write the name of the enzyme not present in muscle?
14. Define induced fit theory.
15. Write the lineweaver Burk equation.
16. What do you mean by competitive inhibition?
17. What is a multienzyme? Give an example.
18. What are uncouplers? Give an example
19. What do you mean by units of enzyme activity?
20. What is a catalytic site?
21. What is active sie?
22. Define activation energy
23. What do you mean by enzyme specificity
24. Write the michaelis-menten equation
25. What is inhibitors?
26. What are endoenzyme?
27. What is catalytic site?
28. What is Vo?
29. What is a substrate?
30. What is an isoenzyme?
31. What is Km?
32. What do you mean by optimum temperature?
33. Write the reaction catalyzed by LDH.
34. Write the formation and break down of ES complex.
35. What are the types of reversible inhibition?
36. What is uncoupling agent?

SECTION-B

37. Write briefly on induced fit model of enzyme action.
38. What are isoenzymes? Give examples.
39. Write briefly on specificity of enzymes.
40. Classify the enzymes.

41. Types of enzyme inhibition-explain
42. Explain about active site determination.
43. Write a note on factors affecting enzyme reactions.
44. Give the illustrated explanation for lock and key model?
45. Differentiate oxidative phosphorylation and substrate level phosphorylation
46. Explain coenzymes?
47. Explain the significance of Km and Vmax?
48. Explain the lock and key theory for enzyme action.
49. Write a note on isoenzyme.
50. Write the significance of michaelis constant.
51. Write note on Allosteric enzyme.
52. Explain about allosteric inhibition
53. Give the illustrated explanation for Acid base catalysis.
54. Explain about metal ion catalysis.
55. Explain about Immobilization of enzymes.
56. Write a note on application of enzymes.

SECTION-C

57. Explain mechanism of action of enzymes?
58. Derive Km and Vmax and Lineweaver plot.
59. Explain the factors that influence enzyme activity.
60. Elaborate on enzyme inhibition and its types.
61. Write in detail the chemiosmotic theory.
62. Describe different types of inhibitions in enzyme reactions in detail.
63. Explain the factors involved in enzyme reaction in detail.
64. Explain the factors that affect enzyme activity.
65. What is enzyme inhibition? Write a note on noncompetitive and uncompetitive inhibition.
66. Explain about the Allosteric enzyme and give the exambles
67. Explain about allosteric inhibition and its regulation.
68. Give the illustrated explanation for chemical nature of enzyme catalysis.
69. Explain about metal ion catalysis.
70. Explain about the adsorption, entrapping, ionic bonding and encapsulation.
71. Write a note on therapeutic and industrial application of enzymes.

Subject handled:
K. Shagirtha