



## عناوين موضوعات الأبحاث الخاصة بمادة الكيمياء الحيوية **Bioc** الفرقة الأولى / الفصل الدراسي الثاني / مايو 2020م

1. Isoenzymes.
2. Enzymes specificity.
3. Enzyme kinetics.
4. Enzyme inhibitors.
5. Role of enzymes in clinical diagnosis.
6. Therapeutic role of enzymes.
7. Classification of enzymes.
8. Nomenclature of enzymes.
9. General properties of enzymes.
10. Chemical nature of enzymes.
11. Coenzymes.
12. Modes of enzyme action.
13. Regulation of enzyme activity.
14. Biochemistry of thiamin.
15. Biochemistry of riboflavin.
16. Biochemistry of niacin.
17. Biochemistry of Pantothenic acid.
18. Biochemistry of pyridoxine.
19. Biochemistry of biotin.
20. Biochemistry of lipoic acid.
21. Biochemistry of folic acid.
22. Biochemistry of cyanocobalamin.
23. Biochemistry of ascorbic acid.
24. Biochemistry of vitamin A.



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25. Biochemistry of vitamin D.
26. Biochemistry of vitamin E.
27. Biochemistry of vitamin K.
28. Sulfur containing vitamins.
29. Vitamins important for normal bone structure.
30. Vitamins important for healthy skin and epithelium.
31. Vitamins important for heme synthesis.
32. Vitamins synthesized from monosaccharide derivatives.
33. Vitamins containing pyridine ring.
34. Vitamins containing pyrimidine ring.
35. Vitamins containing pteridine ring.
36. Vitamins containing alcohol.
37. Vitamins important for normal blood clotting.
38. Vitamins important for energy production.
39. Vitamins important for one carbon moiety metabolism.
40. Vitamins related to antioxidant functions.
41. Sulfur containing coenzymes.
42. Calcium metabolism.
43. Phosphorous metabolism.
44. Magnesium metabolism.
45. Sulfur metabolism.
46. Sodium metabolism.
47. Potassium metabolism.
48. Chloride metabolism.



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49. Iron metabolism.
50. Iodine metabolism.
51. Copper metabolism.
52. Zinc metabolism.
53. Selenium metabolism.
54. Fluorine metabolism.
55. Minerals important for normal bone structure.
56. Minerals important for regular muscle contraction and relaxation.
57. Minerals important for balanced osmotic pressure.
58. Minerals important for prevention of anemia.
59. Detoxication by oxidation.
60. Detoxication by conjugation.
61. Phase-I reactions of xenobiotics detoxication.
62. Phase-II reactions of xenobiotics detoxication.