SECTION – A  

Answer any eight questions from the following:

1. Un couplers.
2. De carboxylation reaction.
3. High energy compounds.
5. Chemiosmotic theory.
6. Ketogenesis.
7. Biosynthesis of cholesterol.
9. Inhibitors of respiratory chain.
SECTION – B

(4×15=60 Marks)

Answer all the following:

13. a) Sketch the ultra structure of mitochondria and discuss the arrangement of electron transport chain carriers.
   OR
   b) Discuss the oxidative phosphorylation in detail add a note on uncouplers.

14. a) Discuss the pentose phosphate pathway and its physiological significance.
   OR
   b) Discuss the salient features of β-oxidation. What is the energy yield?

15. a) Enumerate the general reactions involved in amino acid metabolism. Indicating the co-enzyme participation.
   OR
   b) Discuss the biosynthesis and regulation of purine nucleotides.

16. a) Write an essay on methods used in tissue homogenization.
   OR
   b) Explain the principle in centrifugation and list out its applications.