

MBBS Lipids – Biochemistry Chapter Wise Previous Exam Questions conducted by KUHS (Kerala University of Health Sciences)

1. Fatty acid synthase enzyme complex/ Name the rate-limiting enzyme in fatty acid synthesis
2. Beta oxidation of fatty acids/ Define β -oxidation. Explain the reactions of β -oxidation of palmitic acid. Add a note on its energetics. (2+5+3=10)
3. Explain the oxidation of palmitate in mitochondria. Describe how the process is regulated. Mention the number of high energy phosphate bonds generate in palmitate oxidation
4. Classify lipoproteins and mention the function of each.
5. Describe the role of lipoproteins in cholesterol transport.
6. What is the Normal serum cholesterol? Why HDL & LDL cholesterol are known as good and bad cholesterol respectively ?
7. Functions of cholesterol
8. Regulation of cholesterol synthesis
9. Mention any two compounds derived from cholesterol
10. Essential fatty acids/ What are essential fatty acids? Enumerate them. List two functions and one deficiency manifestation
11. Fatty liver/ What is the biochemical basis of fatty liver in alcoholism?
12. Name the ketone bodies. Describe the process of ketogenesis. List the conditions that lead to ketoacidosis
13. LDL receptor
14. Give the normal serum values of HDL
15. Define carnitine and explain its role in oxidation of fatty acids
16. Carnitine shuttle/ Role of carnitine / Importance of Carnitine in lipid metabolism
17. Name different lipases involved in lipid metabolism and mention its functions .
18. What is the role of bile salts in fat digestion and absorption.
19. Mention any four fate of acetyl CoA
20. Mention any two functions of phospholipids
21. Plasma lipid profile
22. PUFA
23. Phosphatidic acid
24. Rate limiting reaction of cholesterol biosynthesis
25. Name the bile salts and mention its functional significance
26. Ketosis
27. Classification of glycolipids
28. Four functions of phospholipids
29. Name the lung surfactant and mention its components
30. What is lecithin and mention its use
31. Name the deficient enzyme in Niemann Pick disease
32. Plasma lipoprotein which is inversely correlated with coronary heart disease
33. What are lipotropic factors. Enumerate three lipotropic factors/ Name four lipotropic factors
34. Why alcohol ingestion causes fatty liver