



QP CODE: 26019343



Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, MARCH 2026
Fourth Semester
M Sc APPLIED CHEMISTRY
ELECTIVE - CH840402 - BIOCHEMISTRY OF FATTY ACIDS

2019 Admission Onwards

56AD4D80

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. Write a note on compound lipids.
2. Write a short note on vitamins.
3. Write a short note on phospholipids.
4. Write short note on the separation of monoenoic acid and dienoic acid by crystallization methods.
5. Give any two methods for the preparation of saturated fatty acids.
6. Write a note on polyunsaturated fatty acids.
7. Give the product obtained by the oxidation of oleic acid with ozone.
8. Give any two reagents used for the dehydration of fatty acids.
9. What is thermal polymerization?
10. List out the steps involved in the chain elongation reaction of biosynthesis of fats.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Explain caloric and noncaloric functions.
12. Briefly explain flavor and odor contributing constituents with examples.
13. Explain the use of IR spectra in the structure elucidation of fatty acids.





14. Briefly explain the nomenclature of fatty acids.
15. Briefly explain the properties and constitution of petroselenic acid..
16. Write a note on (a) hydroxy acids (b) furanoid acids.
17. Explain the cyclo-oxygenase pathway of Arachidonic acid which leads to different classes of prostaglandins.
18. Analyse the Medical applications of prostanoids.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Explain the theories of glyceride structure.
20. Important uses of fatty acids in following fields a) Leather industry b) Textile industry.
21. Write down the occurrence and general methods of synthesis of monoethenoid fatty acids.
22. Briefly explain (a) salt formation reaction (b) esterification (c) halogenation.

(2×5=10 weightage)

