



QP CODE: 26019342



Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, MARCH 2026

Fourth Semester

M Sc APPLIED CHEMISTRY

ELECTIVE - CH840401 - INDUSTRIAL OILS AND FAT PRODUCTS

2019 Admission Onwards

22399E92

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. Write a short note on heat pretreatment of oil bearing materials.
 2. What are the important sources and composition of castor oil?
 3. Expand the following-EFA,LDL,HDL AND VLDL.
 4. Write a note on wet reduced catalyst.
 5. Compare glycerolysis and glycolysis.
 6. Harmful effects of rancid food. Explain.
 7. Briefly explain induction period.
 8. Write a note on viscosity and colour of oils and fats.
 9. Write a note on acid value and free fatty acid value
 10. Write down the composition of waxes and give two examples each for natural and synthetic waxes.
- (8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Briefly explain the following methods (a) refining (b) deodorization
12. Briefly explain the important sources, composition, characteristics and uses of (a) tallow (b) olive oil





13. Give a brief account on (a) Salad oil (b) Salad dressing
14. Write a note on the role of agitation on hydrogenation.
15. Explain the different steps involved in enzymatic splitting.
16. Compare esterification and ester hydrolysis.
17. Differentiate flow test and consistency test.
18. Give an account for Reichert-Meissel value and diene value

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Give an account of the following methods: (a) solidification (b) homogenization (c) emulsification (d) dewaxing
20. Briefly explain the important sources and significance of ω -3 and ω -6 fatty acids to human nutrition and health.
21. Explain: a) Recovery of glycerine from spent lye, b) Different grades of glycerine.
22. Give an account of the naturally occurring fatty alcohols. How they are produced? What are their commercial applications?

(2×5=10 weightage)

