

Name

25U509

Reg. No

UNDERGRADUATE END SEMESTER EXAMINATION - OCTOBER 2025

SEMESTER 5 : CHEMISTRY (OPEN COURSE)

COURSE : 19U50CCE1 : CHEMISTRY IN EVERYDAY LIFE

(For Regular 2023 Admission and Supplementary 2022/ 2021/ 2020/ 2019 Admissions)

Time : Three Hours

Max. Marks: 75

PART A

Answer any 10 (1 mark each)

1. Explain an application of a cationic detergent.
2. Name any two artificial sweetening agents used in soft drinks.
3. Name one essential oil.
4. What is the use of vitamin C in soft drinks?
5. Permanent hair dyes are usually the derivatives of -----
6. Name any two additives of soap
7. Sleeping pills are usually derivatives of-----
8. Which is the most widely used natural fibre for clothing?
9. What should be the ideal C-chain length of a soap molecule ?
10. Calcium Carbonate is used in toothpaste as _____.
11. Which sugar is normal constituent of blood and occurs in the urine of diabetic patients?
12. Name one preservative used in cosmetics.
13. Give an example of emulsifier.

(1 x 10 = 10)

PART B

Answer any 10 (2 marks each)

14. Write about the environmental problem occur during paper manufacture.
15. Explain the benefits of LAS detergents.
16. Write short note on microbial pesticides with one example.
17. What are the benefits of a vegetable juice?
18. How is liquid soap manufactured?
19. Explain why soap cannot be used in hard water?
20. What are the major ingredients of lipstick?
21. Write the importance of vegetable oils in aroma therapy.
22. Explain the activity of sucralase and aspartame
23. How will you explain the action of antifertility drug?
24. Differentiate between hard detergent and soft detergent.
25. What are growth inhibitors? Give example.
26. Why is Mefenamic acid considered superior to aspirin as an analgesic?

(2 x 10 = 20)

PART C

Answer any 5 (5 marks each)

27. Give a brief account of the composition of bathing soap. Mention the role of each components.
28. Discuss the role of leavening agents and taste enhancers in food industry. Give examples for each type.
29. Plastics are important in everyday life. Elaborate.
30. Discuss the mechanism of cleansing action of detergents.
31. Describe the difference in the action of emergency contraceptives and medical abortion pills. Give an example for each.
32. Give a description on the chemistry behind permanent hair dyeing.
33. What are dyes ? Explain the history of accidental synthesis of dye?
34. Discuss the environmental hazards of detergents.

(5 x 5 = 25)

PART D

Answer any 2 (10 marks each)

35. Give a detailed account of soft and health drinks. Outline their impact on health.
36. What are cosmetics? Describe their classification and the major ingredients present in the mentioned cosmetics.
37. Give a brief account on cotton, jute and coir.
38. Write a short note on artificial fertilizers. What are the environmental hazards associated with these type of fertilizers?

(10 x 2 = 20)