



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – CHEMISTRY

FOURTH SEMESTER – APRIL 2023

16UCH4ES01 – CHEMISTRY OF FOOD AND CONSUMER PRODUCTS

Date: 11-05-2023

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 NOON

PART – A

Answer all the questions.

(10 x 2 = 20)

1. What are artificial sweetening agents? Give example.
2. Write the significance of Maillard reaction.
3. Define rancidity of fats.
4. Define Iodine number of oil.
5. Write the demerits of fast food.
6. Mention the factors influencing BMR.
7. List the common adulterants in species and vegetable oil.
8. Name the ingredients used in the preparation of lipsticks.
9. Mention the composition of Nail Polish.
10. Write a note on biodegradation of detergents.

PART- B

Answer any EIGHT questions.

(8 x 5 = 40)

11. Explain the effects of cooking on rice and legumes.
12. Describe the sources and functions of basic five food groups.
13. List the sources, functions, bioavailability and deficiency of calcium, iron and iodine.
14. Discuss the steps involved in the cultivation of mushroom and its types in detail.
15. Explain about the different stages of growth of bacteria in food with a neat sketch.
16. Explain the biological functions and applications of antioxidants.
17. List the sources, functions, bioavailability and deficiency of fat soluble vitamins.
18. Differentiate soaps and detergents.
19. How do AGMARK and FSSAI play vital roles in ensuring the quality of food?
20. Discuss the role of food colorants.
21. How will you check the adulterants found in Milk, Turmeric, Sugar, edible oil and Tea powder?
22. Describe the cleansing action of soap

PART- C

Answer any FOUR questions.

(4 x 10 = 40)

23. What is enzymatic browning? Explain its mode of action and prevention in fruits and vegetables.
24. Explain the following
 - i) MUFA
 - ii) acid number of an oil
 - iii) fortification of foods
 - iv) dehydrated fruits.(2.5 x 4 = 10)
25. Mention the importance of tetra pack and nitrogen preservation in food processing.
26. Write a note on antihairfall and baby shampoos.
27. Explain the classification and functions of detergents.
28. Enumerate the ingredients used for sunscreen lotion preparation and explain the significance of UV absorbers in it.

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