

(6 pages)

Reg. No. :

Code No. : 20476 E Sub. Code : CNCH 42

U.G. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2023.

Fourth Semester

Chemistry

Non Major Elective — CHEMISTRY IN EVERYDAY
LIFE

(For those who joined in July 2021–2022)

Time : Three hours Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

- The role of turmeric in cosmetics
(a) antiseptic
(b) colourant
(c) colourant and antiseptic
(d) surfactant
- Urea is a _____
(a) Fertilizer
(b) Insecticide
(c) Fungicide
(d) Pesticide
- The process of decomposition of organic matters into fertilizer is called _____
(a) dilution
(b) solubility
(c) composting
(d) cooking
- _____ is a natural fiber.
(a) Nylon (b) Silk
(c) Rayon (d) Polyester
- The chemical compound used in leather tanning is _____
(a) ammonium sulphate
(b) ammonium borate
(c) basic chromium sulphate
(d) ammonium chloride

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- Identify the name of a surfactant in shampoo
(a) sodium sulphate
(b) sodium lauryl sulphate
(c) uranyl sulphate
(d) paraffin
- Potassium salt of fatty acids is called _____
(a) soft soap (b) hard soap
(c) detergent (d) alum
- Sodium hydroxide is used in _____
(a) soft soap (b) hard soap
(c) fertilizers (d) alum
- Pick out the antioxidant from the following
(a) Vitamin A (b) Vitamin B
(c) Vitamin C (d) Vitamin E
- Select the correct statement
(a) Butter is a saturated solid fat
(b) Butter is saturated liquid fat
(c) Butter is an unsaturated solid fat
(d) Butter is an unsaturated liquid fat

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PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

- (a) What are all purpose creams? Write their importances.
Or
(b) What are deodorants? Explain their composition and uses.
- (a) Write the basic chemical composition of soap.
Or
(b) What are detergents? Give examples.
- (a) Develop a methodology for microwave cooking.
Or
(b) Comment on the hydrogenation of oil.
- (a) Give a brief account of fertilizers.
Or
(b) Develop methodologies for the biological control of weeds.

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15. (a) What is flammability? Give its significance.
Or
(b) Discuss the chemistry of dyeing in textile industry.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Explain the following with examples
(i) Dentifrices
(ii) Sun screen lotion.
Or
(b) What are additives? Give any two examples. Explain their role in cosmetics.
17. (a) Enumerate the composition of toilet soap and washing soap.
Or
(b) Explain the role of following materials in soap
(i) additives
(ii) fillers
(iii) fragrance.

18. (a) Predict the physical and chemical changes occurred during cooking.

Or

- (b) Comment on the nature and composition of fatty acids in butter and cooking oil.
19. (a) Criticize the role of pesticides and their toxicities.
Or
(b) Describe the nutrient deficiency in plants.
20. (a) Write the composition of carpet and leather materials.
Or
(b) Construct the methodology for leather tanning.