



OECH111

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I Semester B.Sc. Degree Examination, March/April - 2023

CHEMISTRY**Chemistry in Daily Life (Open Elective)**
(CBCS NEP Scheme)**Time : 2½ Hours****Maximum Marks : 60****Instructions to Candidates:**Question paper has **three** parts. Answer **all** the parts.**PART - A**Answer **any FIVE** of the following. Each carries **2** marks.**(5×2=10)**

1. Name any two artificial sweeteners.
2. Mention the two types of rancidity.
3. Write any two functions of vitamin - B-1.
4. What are secondary batteries?
5. Give two examples for chemical energy sources.
6. Why is chicory used in certain beverages?

PART - BAnswer **any FOUR** of the following questions. Each carries **5** marks.**(4×5=20)**

7. a. Write a note on aspartame along with its side effects.
b. Name any two synthetic flavouring agents. **(3+2)**
8. a. What are food colourants? Give two examples.
b. Mention the minerals present in milk. **(3+2)**
9. a. Give the chemical name of vitamin - A, vitamin - C and Vitamin - E.
b. Explain Halphen's test. **(3+2)**
10. a. Washing soaps are hard while toilet soaps are soft. Give reason.
b. What is Saponification? **(3+2)**

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11. a. What are renewable and non-renewable energy resources? Give examples.
b. Give any two examples for synthetic polymers. (3+2)
12. a. Give any two applications of plastics in
i. Electronic field and
ii. Automobile industry.
b. What is addition polymerization? (3+2)

PART - C

Answer any **THREE** of the following. Each carries **10** marks. (3×10=30)

13. a. Describe the test to detect methyl alcohol in alcoholic beverages.
b. Explain the detection of argemone oil in edible oils.
c. Give any two examples for inorganic polymers. (4+4+2)
14. a. Explain the composition of milk with respect to proteins and fats.
b. Write the deficiency symptoms of vitamin - D and Vitamin - K.
c. Mention the general effects of plastics on human life. (4+4+2)
15. a. What are food contaminants? Give two examples.
b. What are detergents? How are they classified?
c. Write a note on importance of solar energy. (4+4+2)
16. a. Write a note on coal - tar dyes.
b. Give the composition of edible oils.
c. Mention the characteristics of polymers. (3+3+4)
17. a. Explain the analysis of fat content in milk and butter.
b. Give the composition and uses of detergents.
c. Mention the applications of fuel cells. (3+4+3)
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