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B.M.S COLLEGE FOR WOMEN AUTONOMOUS
BENGALURU – 560004
SEMESTER END EXAMINATION – JANUARY / FEBRUARY 2023

Open Elective – I Semester

CHEMISTRY IN DAILY LIFE – I
(NEP SCHEME 2021-22 onwards – Freshers)

Course Code: CHE1OE01

Time: 2½ Hours

QP Code: 1208

Max. Marks: 60

Instructions: 1. Question paper has three Parts. Answer all the parts.

PART– A

Answer any **FIVE** of the following questions. Each question carries **TWO** marks. **(5x2=10)**

1. What is baking soda? Mention its mode of action.
2. What is the composition of cow's milk?
3. Write the chemical name of the following vitamins: Vitamin A and Vitamin C
4. Name the metal ion; i) carries oxygen in blood ii) increases immunity.
5. What are essential fatty acids? Give an example
6. Define battery?
7. Write any two advantages of fuel cells.

PART– B

Answer any **Four** of the following questions. Each question carries **FIVE** marks **(4x5=20)**

8. a) Mention the major chemical ingredients present in match stick and match box.
b) Name any two food colorants. **(3+2)**
9. Name any three artificial sweeteners and mention their side effects. **(5)**
10. a) Write any three differences between oils and fats.
b) What is adulteration of vegetable oil? **(3+2)**
11. What are soaps? Mention the raw materials used in manufacture of soap. **(5)**
12. Mention any five characteristics of a battery. **(5)**
13. What are polymers? Explain natural and synthetic polymers. **(5)**

PART- C

Answer any **Three** of the following questions. Each question carries **TEN** marks **(3x10=30)**

14. a. Write a brief note on lipsticks. **(6+4)**
b. Name any two food preservatives and mention their roles.
15. a. Mention any two sources and deficiency symptoms of the following vitamins: **(6+4)**
i) Vit-C ii) Vit-K iii) Vit-B12
b. What is rancidity of an oil or fat? How it can be prevented.
16. a. Mention the major chemical ingredients present in shampoo. **(3+3+4)**
b. what is the role of Ca^{2+} and Mg^{2+} ions in human body?
c. what are the uses of solar energy.
17. a. Explain the basic components of a battery with labelled diagram. **(6+4)**
b. Write the differences between primary and secondary batteries
18. a. Discuss the problems of plastic waste. **(4+3+3)**
b. What are edible oils? Give an example.
c. What are flavouring agents? Give an example.
