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BMS COLLEGE FOR WOMEN
BENGALURU – 560004

I SEMESTER END EXAMINATION – JAN/FEB- 2024

OPEN ELECTIVE – CHEMISTRY IN DAILY LIFE
(NEP Scheme 2021-22 Onwards F + R)

Course Code: CHE10E01

Duration: 2½ Hours

QP Code:1208

Max. Marks: 60

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

PART-A

Answer any FIVE of the following questions, each question carries two marks. (5×2=10)

1. Name any two non-permitted food colors.
2. List the raw materials used in the manufacture of soap
3. Identify any two applications of plastics in automobile industry.
4. What is baking soda? Mention its mode of action.
5. Cite any two functions of Vitamin -A.
6. What are fuel cells?
7. Indicate the percentage and composition of cow's milk.

PART-B

Answer any FOUR of the following questions; each question carries FIVE Marks. (4×5=20)

- 8.a) Compose a note on firecrackers. **3+2**
- b) Identify the major chemical ingredients present in nail polish.
9. a) What are edible oils? Give two examples. **3+2**
- b) Name the types of rancidity.

10. List any five uses of a battery. 5
11. Name any three artificial sweeteners and mention their side effects. 5
12. a) Distinguish between fat-soluble and water-soluble vitamins. 4+1
- b) Which vitamin does citrus fruit contain?
13. Discuss the natural and synthetic polymers with examples 5

PART-C

Answer any THREE of the following questions. Each question carries TEN marks.

- 14.a) What are food preservatives? Give two examples. 4+4+2
- b) Compose a brief note on vinegar.
- c) Name any two synthetic flavoring agents.
- 15.a) What are essential fatty acids? Give any two examples.
- b) Define iodine number of fats? What is its significance? 4+3+3
- c) Discuss the advantages of detergents over soaps.
- 16.a) Explain briefly recycling of plastics. 4+3+3
- b) Discuss any three differences between primary and secondary batteries.
- c) Define non-renewable energy sources? Give examples.
17. a) Name the major chemical ingredients and mode of action of toothpaste. 5+3+2
- b) Identify any one biological role of Fe^{2+} , Zn^{2+} and Ca^{2+} ions.
- c) List the major chemical ingredients of cooking gas.
- 18.a) Identify the deficiency, symptoms & sources of vitamin D. 5+5
- b) Point out any five applications of solar energy?
