

**FIFTH SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2024****(Regular/Improvement/Supplementary)****CHEMISTRY****GCHE5D02T: CHEMISTRY IN DAILY LIFE****(OPEN COURSE)****Time: 2 Hours****Maximum: 60 Marks****SECTION A: Answer the following questions. Each carries *two* marks.****(Ceiling 20 marks)**

1. Write a note on the cleansing action of soap.
2. What is cortisol hormone? Give one example and its function.
3. Write two methods for artificial ripening of fruits.
4. Define Flash point.
5. Define prodrug.
6. Illustrate the classification of detergents with suitable examples.
7. Differentiate between pharmacodynamics and pharmacokinetics.
8. Give the composition of natural gas and LPG.
9. What is meant by NPK value?
10. Comment on calorific value.
11. What are antibiotics? Give one example.
12. Differentiate between hard soaps and soft soaps.

**SECTION B: Answer the following questions. Each carries *five* marks.****(Ceiling 30 marks)**

13. What are pesticides? Explain the classification of pesticides with examples.
14. How polymers are classified based on synthesis, and intermolecular forces? Give examples.
15. What are nucleic acids? Explain their role in life processes.
16. Briefly discuss octane number and cetane number.
17. Write a note on the functions and deficiency diseases of vitamins.
18. Discuss the requirement of a dye and its classification based on the mode of application to the fabric.
19. Write a short note on plastic identification codes.

**SECTION C: Answer any *one* question. The question carries *ten* marks.**

20. Give the ingredients and functions of bleach creams, antiperspirants and sunscreen preparations. Also, write the applications of Polyethylene, Bakelite, Nylon 6 and PLA.
21. Write a short note on food additives. Also, give an account of various food adulterants in different food items.

**(1 × 10 = 10 Marks)**