

**FIFTH SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2025**  
**(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. Which vitamin is called the 'antihemorrhagic vitamin'? What can happen if it is deficient in the body?
2. Define antidepressants? Mention their applications.
3. What are saturated and unsaturated fats? How their consumption affect cardiovascular health?
4. What is an NPK fertilizer?
5. Explain the terms macronutrients with regard to plant growth. Name the essential macronutrients?
6. What is meant by saponification of a fat or oil?
7. Explain the term cationic detergents with suitable examples.
8. Give an example each for a branched chain polymer and a cross-linked polymer.
9. What is PLA? Give its monomer unit.
10. What are sunscreen or uv absorbers? Give examples
11. Explain antipyretic drugs with an example.
12. What is meant by prodrug? Mention its advantages.

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

13. What are the main constituents of dyes and how it works?
14. Write a note on (i)Buna-N, (ii)Buna-S, (iii)Neoprene
15. What are pesticides? Discuss its classification.
16. Distinguish between: (i) Elastomers and fibres (ii) Thermoplastics and thermosetting plastics.
17. What are the different types of fabric dyeing process used in the textile industry?
18. Define the terms: (i) Octane number; (ii) Cetane number; (iii) Flash point.
19. How coal is formed? Briefly explain its fractional distillation.

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

20. What are cortical hormones? Give its types and functions.
21. Discuss briefly on artificial sweeteners. Mention their application in food processing and adverse health effects caused by them.

**(1 x 10 = 10 Marks)**