

**UG-360**

**BBOTA-11**

**B.Sc. DEGREE EXAMINATION —  
JUNE, 2019.**

**Second Year**

**GENERAL CHEMISTRY**

Time : 3 Hours

Maximum marks : 75

**PART A — (5 × 5 = 25 Marks)**

Answer any FIVE questions.

1. Write short account on indicators.
2. With suitable examples explain molarity and normality.
3. What is distillation? How fractional distillation is used for purifications of organic compound.
4. Define catalysts. Explain its properties.
5. What are the types and properties of polymers?
6. Define antibiotics. List out the uses of penicillin and streptomycin.
7. Give brief account on first aid techniques.
8. Bring out the causes and effects of water pollution.

PART B — (5 × 10 = 50 Marks)

Answer any FIVE questions.

9. What are the types of chemical bonds? Describe any three types of bonds with examples.
10. With suitable examples explain the following organic reactions.
  - (a) Addition
  - (b) Substitution
  - (c) Polymerization
11. Define chromatography. Write the principles and applications of thin layer chromatography.
12. Explain Michaelis menton equation.
13. Write preparation and applications of the following.
  - (a) Polythene
  - (b) Teflon
14. Classify carbohydrates with suitable examples. Write the properties of disaccharides.
15. Define water soluble vitamins. Discuss sources and deficiency states of any three of them.
16. What is pollution? Mention the sources and effects of air pollution.