

**November 2025**  
**M.Sc.**  
**Third Semester**  
**CORE – 10**  
**GEOLOGY**  
*Course Code: MGLC 3.21*  
(Economic & Ore Geology)

*Total Mark: 70*  
*Time: 3 hours*

*Pass Mark: 28*

*Answer five questions, taking one from each unit.*

**UNIT-I**

1. Explain the origin, occurrence, and distribution of tin deposit in India. 14
2. Write a note on each of the following: 7×2=14
  - (a) Origin and occurrence of tungsten
  - (b) Occurrence and distribution of lead deposit in India

**UNIT-II**

3. Write a note on the general character and origin of corundum. Give the occurrences and distribution in India. 4+10=14
4. Write a note on each of the following: 7×2=14
  - (a) Mode of occurrence and origin of diamond
  - (b) Carbonate rocks

**UNIT-III**

5. Explain the mineralogy, mode of occurrence – origin and the production of cadmium in India. 3+6+5=14
6. Write a note on each of the following: 7×2=14
  - (a) Mode of occurrence and origin of bismuth
  - (b) Origin and distribution of monazite metal

#### UNIT-IV

7. Write an account of various aspects of the chemical composition of ores. 14
8. Write a note on each of the following: 7×2=14
- (a) Modern concepts of ore genesis
  - (b) Role and significance of organic matter in ores

#### UNIT-V

9. Explain with suitable examples stratiform and stratabound ore deposits. 14
10. Write a note on each of the following: 7×2=14
- (a) Diamonds in kimberlite
  - (b) Kiruna type
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