

2021
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. Discuss the origin, occurrences and distribution of tungsten deposit in India. 14
2. Write notes on the following: 7×2=14
 - (i) Origin and occurrences of tin
 - (ii) Chemical composition and distribution of lead deposit in India

UNIT-II

3. Discuss on the mineralogy, origin and occurrence of carbonates. Add a note on the reserves in India. 14
4. Write notes on the following: 7×2=14
 - (i) Chemical composition, occurrences and distribution of corundum
 - (ii) Origin, occurrences and distribution of talc

UNIT-III

5. Write a detailed report on the mineralogy and origin of platinum group of metals. Mention their mode of occurrences, uses and distribution in India. 14
6. Write notes on the following: 7×2=14
 - (i) Origin and uses of cadmium metal
 - (ii) Mineralogy and mode of occurrences of bismuth metal

UNIT-IV

7. Explain briefly on the mode of occurrence of ore bodies. 14
8. Write notes on any *two* of the following: 7×2=14
- (i) Zoning of ores
 - (ii) Migration of ore bearing fluids
 - (iii) REE in ores

UNIT-V

9. Write an account on stratiform and stratabound ore deposits. 14
10. Write notes on any *two* of the following: 7×2=14
- (i) Pegmatites
 - (ii) Placers
 - (iii) Ores related to weathering
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