

2021
B.A./B.Sc.
Fifth Semester
DSE – 1
GEOLOGY
Course Code: GLD 5.11
(Exploration Geology)

Total Mark: 70

Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

UNIT-I

1. Write notes on: 7×2=14
 - (i) Concept of prospecting and exploration
 - (ii) Stages of prospecting
2. Discuss in detail the concepts of resource and reserve. 14

UNIT-II

3. Discuss about the different methods of sampling techniques used in mineral exploration. 14
4. Write notes on: 7×2=14
 - (i) Remote sensing in exploration
 - (ii) Gravity prospecting method

UNIT-III

5. Explain the different methods of non-core drilling methods with relevant diagrams. 14
6. Write notes on: 7x2=14
 - (i) Auger drilling
 - (ii) Core logging

UNIT-IV

7. What is reserve estimation? Explain the polygon methods and the factors affecting the reliability of reserve estimation. 4+10=14
8. Discuss in detail the importance of bulk density in reserve estimation. 14

UNIT-V

9. Explain about the National Mineral Policy of India. 14
10. Write notes on: 7×2=14
- (i) Stratigraphic, critical and essential minerals
 - (ii) Marine mineral resources
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