

2023
B.A./B.Sc.
Second Semester
GENERIC ELECTIVE – 2
GEOLOGY
Course Code: GLG 2.11
(Rocks & Minerals)

Total Mark: 70
Time: 3 hours

Pass Mark: 28

Answer five questions, taking one from each unit.

UNIT-I

1. Define mineral. Explain the different ways in which minerals are formed. 2+12=14
2. Write notes on the following: 7×2=14
 - (a) Cleavage
 - (b) Specific gravity

UNIT-II

3. What are the different functions of a petrological microscope? Explain with neat sketch. 7+7=14
4. Write notes on the following: 7×2=14
 - (a) Twinning
 - (b) Isotropic and anisotropic minerals

UNIT-III

5. What is magma differentiation and assimilation? 14
6. Write notes on the following: 7×2=14
 - (a) Classification of igneous rocks based on mineral composition
 - (b) Nature of magma

UNIT-IV

7. What are sedimentary rocks? Explain classification of sedimentary rocks with examples. 2+12=14
8. Write notes on the following: 7×2=14
- (a) Physical weathering
 - (b) Diagenesis

UNIT-V

9. What are metamorphic rocks? Explain the agents leading to metamorphism. 2+12=14
10. Write notes on the following: 7×2=14
- (a) Differentiate regional and thermal metamorphism
 - (b) Textures of metamorphic rocks
-