

2022
B.A./B.Sc.
Sixth Semester
CORE – 13
GEOLOGY
Course Code: GLC 6.11
(Engineering Geology)

Total Mark: 70

Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

UNIT-I

1. Explain how site investigation is done and mention its importance. 14
2. Write notes on the following: 7×2=14
 - (a) Role of geology in engineering.
 - (b) Site characterisation with respect to lithology.

UNIT-II

3. What is grouting? Explain the different types of grouts. 4+10=14
4. Explain the significance of rock aggregates as construction material. 14

UNIT-III

5. Explain in detail the geomechanic system of rock mass classification. 14
6. Write notes on the following: 7×2=14
 - (a) Rock quality designation
 - (b) Tunnel quality index

UNIT-IV

7. Explain in detail the geological consideration in the construction of tunnel. 14
8. Write notes on the following: 7×2=14
- (a) Parts of dam
 - (b) Types of dam

UNIT-V

9. What is landslide? Explain the type, causes and preventive measures of landslide. 2+12=14
10. Describe the various factors that are considered in the construction of roads. 14
-