

October 2025
B.A./B.Sc.
Fifth Semester
DISCIPLINE SPECIFIC ELECTIVE – 2
GEOLOGY
Course Code: GLD 5.21
(Environmental Geology)

Total Mark: 70
Time: 3 hours

Pass Mark: 28

Answer five questions, taking one from each unit.

UNIT-I

1. Discuss sustainability and its importance in resource management. 14
2. Write a note on each of the following: 7×2=14
 - (a) Cultural and environmental awareness
 - (b) Interaction of atmosphere with hydrosphere and cryosphere

UNIT-II

3. Explain the causes, impacts, and mitigation measures of vehicular pollution. 14
4. Write a note on each of the following: 7×2=14
 - (a) Impact and mitigation measures of water pollution
 - (b) Causes and impact of air pollution

UNIT-III

5. Give a detailed explanation on primary and secondary hazard associated with earthquakes. 14
6. Write a note on each of the following: 7×2=14
 - (a) Hill slope stabilisation and landslide control
 - (b) Geological hazards and seismic engineering

UNIT-IV

7. Explain soil sickness and its conservation methods. 14

8. Write a note on each of the following: 7×2=14
(a) Soil loss equation
(b) Causes and impact of deforestation

UNIT-V

9. Discuss forest cover in Northeast India and the strategies to effectively mitigate deforestation. 14
10. Write a note on each of the following: 7×2=14
(a) Drainage related problems and its mitigation
(b) Climatic conditions of Northeast India
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