

**2023**

***Time - 3 hours***

***Full Marks - 80***

*Answer ALL questions.*

*Figures in the right hand margin indicate marks.*

1. Write a note on dimension of environmental stress. Describe briefly about soil erosion and its conservation. [20]

OR

Write notes on :

- (a) Desertification and degradation of land [10]  
(b) Spectrum of environmental geology [5]  
(c) Measures to combat desertification [5]

2. Describe briefly about environmental impact on mining and river valley project. [20]

OR

Write notes on : [10 × 2]

- (a) Rain water harvesting  
(b) Effects of excessive withdrawal of groundwater

[ 2 ]

3. Describe briefly about stability of slope and write a note on types of landslides. [20]

OR

Write notes on : [10 × 2]

- (a) Seismic hazards
  - (b) Coastal hazards and their management
4. Describe briefly about pollution, source of contamination of water and treatment of polluted water. [20]

OR

Write notes on : [10 × 2]

- (a) Energy from waves and tides
- (b) Geothermal energy and nuclear energy