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14 (GGY-4) 4176

**2023**

**GEOGRAPHY**

Paper : GGY-4176

**(Environment and Climate Change)**

Full Marks : 80

Time : Four hours

**The figures in the margin indicate full marks for the questions.**

**UNIT-I**

(40 Marks)

Answer Q. No. 1 and **any three** from the rest.

1. Explain in detail the procedure and importance of environmental valuation and accounting in assessing environmental status of a region. 16

**Or**

Discuss the various dimensions of livelihood issues and options arising due to climate change.

*Contd.*

2. Critically explain the issues involved in environment development dichotomy. 8
3. Present the forest scenario and associated environmental status of North-East India during last two decades. 8
4. Explain the environment-equity correlation from environmental conservation point of view. 8
5. Write short notes on **any two** of the following : 4×2=8
  - (a) Belief system and environmental protection
  - (b) Ecological patterns and processes
  - (c) Environmental connection between people and society

## UNIT-II

(40 Marks)

*Answer Q. No. 6 and any three from the rest.*

6. Discuss a climate model in detail explaining climate protection and prediction. 16

**Or**

Critically explain the factors and impacts of climate change at global level.

7. Analyse the policies and role of UN COP as regards to revealing of global climate change pattern and trend. 8
8. State the characteristics and effects of aerosols on weather and climate. 8
9. Explain the features and role of El Nino—Southern Oscillation (ENSO) in patterning global climate system. 8
10. Write short notes on **any two** of the following: 4×2=8
  - (a) Indian Ocean dipole clouds
  - (b) Mitigation of climate change impacts on agricultural sector
  - (c) Recent trends of global warming