

Total number of printed pages-4

14 (SEM-1) GGY 1036

2025

**GEOGRAPHY**

Paper: GGY-1036

*(Climatology and Biogeography)*

Full Marks : 80

Time : Three hours

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

**UNIT-I**

*(Climatology)*

Marks: 48

**Group-I**

Answer **any two** of the following questions :

16×2=32

1. Differentiate between climate and weather. Evaluate how the spatial and temporal variations in insolation influence the horizontal and vertical distribution of atmospheric temperature across the globe.

4+6+6=16

2. Explain the characteristics, origin, and modification of major air masses and assess how stability and instability conditions influence the regional weather and climate.

10+6=16

3. Discuss the origin and weather conditions associated with the tropical cyclones. Also, highlight its impact in the affected areas.

6+4+6=16

### ***Group-II***

Answer ***any two*** of the following questions :

8×2=16

4. Describe the mechanisms of monsoon development and analyze the global distribution and trajectories of monsoons.

4+4=8

5. Describe the horizontal pressure system of the atmosphere and its relation to surface winds.

5+3=8

6. Discuss the conventional and modern techniques of weather forecasting.

**Unit-II**

**( Biogeography )**

Marks: 32

**Group-I**

Answer **any one** of the following questions :

16×1=16

7. Discuss the structure and functioning of bio-energy cycles in nature. With suitable diagrams, analyze the roles of food chains and food webs in maintaining ecosystem stability. 8+8=16
8. Critically assess the concept and levels of bio-diversity. Discuss why conservation of bio-diversity is essential for the very existence of man himself, citing local examples. 3+5+8=16

**Group-II**

Answer **any two** of the following questions :

8×2=16

9. Define the field of Biogeography and critically examine its development as a scientific discipline. 3+5=8

10. Discuss the National Forest Policies of India including their key effectiveness and milestones.
11. Write short notes on : *(any two)*      $4 \times 2 = 8$
- (a) Project Tiger
  - (b) Development of the Soil horizon
  - (c) Biochore
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