

Total number of printed pages-3

14 (SEM-1) GGY 1036

2024

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 :

1. Explain the elements of weather and the factors that influence climate. Describe the horizontal and vertical distribution of temperature. 4+4+4+4=16

Contd.

2. Describe the mechanism of monsoon. Discuss the distribution of monsoon, their trajectories and irregularities. Further examine the effects of phenomena like *El-Nino* and Walker oscillation on monsoon. $4+4+4+4=16$
3. Describe Köppen's climatic classification in detail. How this classification can be applied to Indian sub-continent? $12+4=16$

Group-II

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

4. Define the field of climatology and discuss its importance in geographical studies. 8
5. Discuss how stability and instability of air mass influence weather and climate. 8
6. Write the concept of global warming with a suitable diagram. 8

UNIT-II

(*Biogeography*)

(Marks : 32)

Group-I

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

7. Define Bio-geography and discuss its importance in geographical studies and with special role it plays in conservation of resources. 16

8. Discuss plant-animal association in different habitats and discuss how change geo-climatic factors have affected it. 16

Group-II

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

9. In the light of current environmental policies of India, what modification you would suggest and why? Cite examples. 8
10. Discuss the characteristics of a ideal soil profile. Draw a diagram of the profile. 8
11. Write short notes on : (**any two**) 4×2=8
- (a) Food chain
 - (b) Bhutan foothills as an ecological zone
 - (c) Wildlife Protection Act, 1972