

M. A. (Final) Examination 2001

GEOGRAPHY

Paper — III (A)

Advanced Climatology

Time: 3 Hours]

[Maximum Marks: 100

Attempt any **four** questions.
All questions carry equal marks.

1. Furnishing illustrations write a detailed account of the heat-budget of atmosphere.
2. Write a detailed account of humidity types. Also, discuss their distribution.
3. Distinguish between evaporation and evapotranspiration. Discuss their applicability in the classification of climates furnishing specific examples.
4. (i) Write detailed notes on Sirocco and Mistral.
(ii) Explain Gradient winds and Geostrophic winds
5. Explain the origin, development and structure of extra-tropical cyclones.
6. Discuss the major bases of classification of climates of the world as adopted by various climatologists. Furnishing appropriate examples explain their merits and shortcomings.
7. What are the sources of climatic data? What types of climatic data are collected and recorded? In what forms these data are being illustrated? Explain.
8. Write short notes on any **two** of the following:
 - (i) Polar Front Theory
 - (ii) Jet Streams
 - (iii) Environmental and Adiabatic Lapse Rate
 - (iv) Inversion of Temperature