

QP Code: 23/PT/15/IIA

POST-GRADUATE COURSE

Term End Examination — June, 2023/December, 2023

GEOGRAPHY

Paper-IIA : CLIMATOLOGY

Time : 2 hours]

[Full Marks : 50

Weightage of Marks : 80%

Special credit will be given for precise and correct answer. Marks will be deducted for spelling mistakes, untidiness and illegible handwriting. The figures in the margin indicate full marks.

Section - A

Answer any *three* questions :

10 × 3 = 30

1. What is agro-climatology ? Discuss the importance of agro-climatic regionalisation in India. 2 + 8
2. Define climatic hazards. How can different techniques of weather forecasting reduce the consequent damages due to climatic hazards ? Give suitable examples. 2 + 8
3. Specify the different atmospheric disturbances. Explain the salient features and theories for the genesis of extra-tropical cyclones with a suitable diagram. 2 + 8
4. What is a tornado ? Discuss about the origin and characteristics of tornadoes. 2 + 3 + 5
5. How is global warming related to climate change ? State the evidences of global warming in the recent past. 3 + 7
6. What is meant by ENSO phenomenon ? Bring out the impact of El Nino and La Nina. 3 + 7

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Section - B

7. Answer any *five* questions : 4 × 5 = 20
- a) How does climate influence agriculture ?
 - b) Explain the significance of different types of weather forecasting.
 - c) State the ideal conditions for the genesis of tropical cyclones.
 - d) Specify the weather conditions associated with a thunderstorm.
 - e) Write a short note on the role of CO₂ on contemporary global warming.
 - f) Distinguish between climatology and meteorology.
 - g) Elaborate the concept of Southern Oscillation Index (SOI).
 - h) Highlight the geomorphic evidences of climate change.
 - i) Bring out the characteristic features of scale of climate.
 - j) Briefly describe the astronomical hypothesis of climate change.
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