

QP Code: 22/PT/15/IIA

POST-GRADUATE COURSE
Term End Examination — June, 2022/December, 2022
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.

Use of scientific calculator is strictly prohibited.

Section - A

Answer any *three* questions :

10 × 3 = 30

1. Examine the relationship between climatology and meteorology. What is applied climatology ? 8 + 2
2. Discuss weather forecasting based on the time scale. Elucidate the commonly used techniques for weather forecasting. 3 + 7
3. Describe the life cycle, structure and salient feature of a tropical cyclone with diagrams. 10
4. Explain the theories of climate change. What is paleo-climate ? 8 + 2
5. Bring out the origin, development and salient features of a Tornado. What is Nor'westers ? 8 + 2
6. What is agro-climatology ? State the influencing factors of agro-climatology. 2 + 8

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[Turn over

Section - B

7. Answer any *five* questions : 4 × 5 = 20

- a) Mention the role of greenhouse gases in global warming.
- b) Distinguish between warm front and cold front.
- c) Write a short note on EL Nino.
- d) Write a short note on Ozone hole.
- e) Highlight the evidence of global warming.
- f) Differentiate macro-climate from micro-climate.
- g) Briefly explain the global water balance.
- h) Explain the Southern Oscillation Index (SOI).
- i) State the favourable conditions of tropical cyclone.
- j) Describe stability and instability of atmosphere.

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