

2023

GEOGRAPHY — HONOURS

Paper : CC-5

(Climatology)

Full Marks : 50

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

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ശ്രദ്ധേയം

Category - A

Answer **any five** questions (each within 50 words).

2×5

1. What is meant by 'ozone hole'?
2. What are aerosols?
3. What is meant by heat equator?
4. Define solar constant.
5. Define freezing nuclei.
6. What is Hadley cell?
7. What is the 'eye of a cyclone'?

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Category - B

Answer **any four** questions (each within 150 words).

5×4

8. Discuss terrestrial heat balance.
9. Explain the concept of 'Greenhouse effect' on the atmosphere.
10. Distinguish between normal lapse rate and adiabatic lapse rate.
11. How does relative humidity differ from absolute humidity?
12. State the characteristics of a thunderstorm.
13. Which part of India receives rainfall in winter and why?

Please Turn Over

Category - C

Answer *any two* questions (each within 500 words).

14. What is 'inversion of temperature'? Discuss the different types of temperature inversion. 2+8
15. How are mid-latitude cyclones formed? Distinguish between warm and cold fronts. 6+4
16. Explain the process of condensation. Discuss the various forms of condensation. 5+5
17. Explain the monsoon circulation over the Indian subcontinent with special reference to jet stream. 10

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