

2019

**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.*

**Category - A**

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

2×5

- ✓ 1. Define geostrophic wind.
- ✓ 2. Why do pilots prefer to fly through stratosphere?
- ✓ 3. Define solar constant.
4. Why do water bodies remain cooler than land during summer days?
- ✓ 5. What is an ITCZ?
- ✓ 6. What is occlusion?
7. Define adiabatic lapse rate.

**Category - B**

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

5×4

- ✓ 8. Distinguish between baroclinic and barotropic conditions in the atmosphere.
- ✓ 9. How does a thunderstorm originate?
- ✓ 10. Explain, in short, the index cycle of a jet stream.
11. Why are hot deserts, situated in the tropics, on the western part of the continents?
- ✓ 12. State the role of water vapour and dust particles in the atmosphere.
13. What is meant by precipitation effectiveness?

**Please Turn Over**

Category - C

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

14. Assess the importance of Ozone layer in the atmosphere. Discuss the process of its formation and depletion. 4+6
  15. What are Jet Streams? How do they influence the Indian monsoon? 3+7
  16. Elucidate the mechanism of rain drop formation in atmosphere as depicted in the Ice-Crystal theory. 10
  17. Discuss Oliver's system of climatic classification with its merits and demerits. 10
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