

**2021**

**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. What is meant by heat equator?
2. Define solar constant.
3. Distinguish between cloud and fog.
4. What is ITCZ?
5. What is the eye of a cyclone?
6. Define occluded front.
7. What is freezing nuclei?

**Category - B**

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

5×4

8. Distinguish between barotropic and baroclinic conditions.
9. Explain in short, the index-cycle of a jet stream.
10. Differentiate evaporation and condensation.
11. How potential evapotranspiration is used in assessing the water balance in an area?
12. What is the difference between relative humidity and absolute humidity?
13. Explain 'radiation inversion of temperature'.

**Please Turn Over**

**Category - C**

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

14. Discuss the mechanism and origin of the monsoon winds with reference to India and explain the role of EL Nino on Monsoon circulation. 6+4
  15. How are mid-latitude cyclones formed? Distinguish between warm and cold fronts. 6+4
  16. Elucidate the mechanism of rain-drop formation in atmosphere as depicted in the Ice-crystal theory. 10
  17. Critically discuss the world climatic classification after Oliver. 10
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