2022

3rd Semester Examination

GEOGRAPHY (Honours)

Paper : C 5-T

[Climatology]

[CBCS]

Full Marks : 60 Time : Three Hours

The figures in the margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable.

Group - A

Answer any ***ten*** of the following questions : 2×10=20

1. Define Environmental Lapse Rate (ELR).
2. What do you mean by Wien's Displacement Law?
3. What is Isanomalous temperature?
4. Differentiate Ferrell cell from Hadley cell.
5. Define convective instability.
6. What is maritime rainfall regime?
7. Write down any two characters of continental tropical air mass (cT).

8. What is Kata Front?

9. Define cloud burst.

10. What do you meant by *Af* and *BWh* climate by Koppen?

11. What is carbon trading?

12. What is 'dew point temperature'?

13. What do you mean by *E* and *F* layer of atmosphere?

14. What is a pseudo monsoon? Give an example.

15. Define ENSO.

Group - B

Answer any ***four*** of the following questions : 5×4=20

16. Discuss the ice crystal theory of precipitation.

17. Draw the relationship between stability, lapse rate and altitude.

18. Describe influences of jet stream in Indian Monsoon.

19. Discuss the different controlling factors of insolation.

20. Assess the characters of various wintertime air masses.

21. Write a short note on 'thunderstorms'.

Group - C

Answer any *two* of the following questions : 10×2=20

22. Critically examine the basic origin and adverse effects of Global Warming.

23. Discuss the development and hazards associated with tornadoes.

24. Discuss the various types of fogs based on forming processes.

25. Elucidate the main features of the climatic classification system developed by Oliver, with its limitation.

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