

2018

CBCS

3rd Semester

GEOGRAPHY

PAPER—C5T

(Honours)

Full Marks : 60

Time : 3 Hours

The figures in the right-hand margin indicate full marks.

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

Illustrate the answers wherever necessary.

Climatology

Answer all questions

Group—A

Answer any ten questions.

10×2

1. Define Environmental Lapse Rate (ELR).

(Turn Over)

2. Highlight the characteristics of Western Pacific Pool (WPP) during low phase of EL-nino effect.
3. State atleast one character of Moist continental Mid-latitude climate under 'Df', 'Ds' and 'Dw' sub-types of climate groups.
4. What do you mean about "Seasonal Re-union" ?
5. What are Hygroscopic nuclei ?
6. What is radiation fog ?
7. How Carbondioxide (CO_2) responsible for 'Global Warming' ?
8. What is Baroclinic condition of atmosphere ?
9. What is 'dew point temperature' ?
10. What is importance of 'Aerosol' in Atmosphere ?
11. What is 'Im Index' ?
12. Differentiate frontal inversion from the other types of temperature inversion.
13. What is 'Degree Day' ?

14. Define 'Thermomeion'.
15. Define colloidal instability.

Group—B

Answer any *four* questions.

4×5

16. Discuss about the different measures of atmospheric humidity.
17. Calculate the dew point temperature while temperature of air parcel and relative humidity are 30°C and 65% respectively using Mark G. Lawrance equation.
18. What is the ice crystal theory of Precipitation ?
19. Discuss the processes of Ozone depletion in the area of stratosphere.
20. Explain the PE and TE index.
21. Put the relationship between stability, lapse rate and altitude with suitable diagram.

Group—CAnswer any *two* questions.

2×10

22. Discuss about the development phases of Tropical Cyclone. State the scale of Thermodynamic Efficiency of tropical cyclone. 7+3

23. Describe the origin and influence of 'jet stream' on Indian Monsoon. 5+5

24. Describe the planetary wind system with related to air pressure belt.

25. Explain the different process of thermodynamic and mechanical modification of the air mass.
