

B.Sc/3rd Sem (H)/GEO/25(CBCS)

2025

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.*

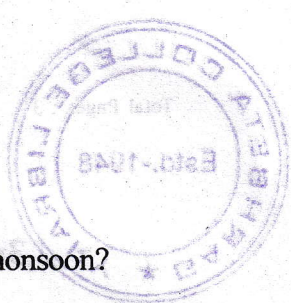
Group - A

Answer any *ten* questions : $2 \times 10 = 20$

1. What is Burst of Monsoon?
2. What is MONEX-73?
3. What is a wave cyclone?
4. What is the atmospheric significance of O_3 ?
5. What do you mean by Occlusion?
6. What do you mean by 'Cs' type of climate, as per Koppen's classification?

P.T.O.

(2)

- 
7. What is frontogenesis?
 8. What is Barotropic wind system?
 9. What do you mean by break of Indian monsoon?
 10. What is high zonal index of Jet stream?
 11. Give the definition of Saturated Adiabatic Lapse Rate.
 12. Which type of wind is called "Hermonic Wind"?
 13. Give four major characteristics of Thermocline.
 14. Distinguish between cloud and fog.
 15. Why are freezing point and dew point not always equal?

Group - B

Answer any **four** questions : 5×4=20

16. Explain the PE and TE indices.
17. Explain the Collision and Coalescence theory of Precipitation.
18. Explain the heat budget of the earth.
19. Why degree of saturation of air is essential for condensation process?
20. State the mechanism of dynamic modification of air-mass.
21. State the different phases of Walker-Circulation.

(3)

Group - C

Answer any *two* questions : $10 \times 2 = 20$

22. "Global warming is a human induced climatic change" — Explain. Mention the predicted consequences of global warming.
 23. Describe the life cycle of mid-latitude cyclone with proper sketches to illustrate your answer.
 24. Explain world climate classification scheme after E. Oliver.
 25. Discuss the classification of cloud according to their height with proper symbols.
-