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B.Sc./3rd Sem (H)/GEOG/23(CBCS)

2023

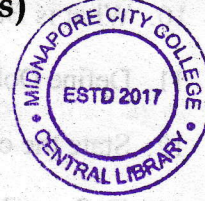
3rd Semester Examination

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 : $2 \times 10 = 20$

1. What is the significance of Tropopause?
2. What is Solar Constant?
3. What do you mean by Urban Heat Island?
4. 'Ozone Layer is a Natural Umbrella of our ecological home' — explain it.
5. What is inversion of Temperature?
6. What is adiabatic lapse rate?

P.T.O.

(2)



7. What is Occlusion?
8. What is homogenous Condensation?
9. What do you mean by Orographic Thunderstorms?
10. What is Burst of Monsoon?
11. Define Dobson unit.
12. State the characteristics of mT air mass.
13. Define 'Thermal Loop'.
14. What is Moisture Index (Im)?
15. What is convective instability?

Group - B

Answer any *four* of the following questions : $5 \times 4 = 20$

16. Explain the different factors controlling insolation.
17. Discuss the consequences of Greenhouse gases on Human health.
18. Describe the different stages of frontogenesis.
19. Explain the factors controlling the planetary wind system.
20. Make a comparison between PE-Index and TE-Index.
21. Explain the Collision and Coalescence theory of Precipitation Mechanism.

(3)



Group - C

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

22. Discuss the different theories of Indian Monsoon.
23. Discuss the climate classification on the basis of annual Rainfall after Koppen.
24. Explain the genesis of Tropical cyclone over the Bay of Bengal.
25. How air mass can be modified due to different atmospheric conditions?