

D 51743

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Name.....

Reg. No.....

**THIRD SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2023**

Geography

GRY 3B 03—CLIMATOLOGY

(2019—2022 Admissions)

Time : Two Hours and a Half

Maximum : 80 Marks

Section A

*Students can answer **all** questions.*

Each question carries 2 marks.

1. Define heat budget.
2. Write a note on the significance of atmosphere.
3. Mention the factors controlling horizontal distribution of pressure.
4. What is land breeze ?
5. Mention the forms of condensation.
6. Define relative humidity.
7. Write a short note on source region of air mass ?
8. Define occluded front.
9. What are the causes of ozone depletion ?
10. Which are the important greenhouse gases ?
11. Give a brief account of maritime air mass.
12. What are the characteristic features of chinook and foehn winds ?
13. Define annual range of temperature ?
14. What are stratus clouds ?
15. How precipitation is formed ?

(Ceiling of mark : 25)

Turn over

Section B

*Students can answer **all** questions.*

Each question carries 5 marks.

16. Describe the composition of atmosphere.
17. Describe the factors controlling horizontal distribution of temperature.
18. Explain the planetary winds.
19. Describe the types of fog.
20. Explain the formation of monsoon.
21. Give a detailed account of hydrologic cycle with the help of a neat diagram.
22. Briefly explain the formation and types of fronts.
23. Describe the impacts of air pollution.

(Ceiling of mark : 35)

Section C

*Answer any **two** questions.*

Each question carries 10 marks.

24. Give a detailed account of characteristic features of cyclones and anticyclones.
25. Explain the causes and effects of global warming.
26. Describe temperature inversion and types of inversion.
27. Explain the surface pressure belts with the help of a diagram.

(2 × 10 = 20 marks)