

2024

## GEOGRAPHY — HONOURS

Paper : DSCC-3

(Geotectonics)

Full Marks : 75

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

## Category - A

Answer **any ten** questions (each within 50 words). 2×10

1. What do you mean by radio-carbon dating?
2. What is dendrochronology?
3. Differentiate between era, period and epoch.
4. What is asthenosphere?
5. What is Lehmann discontinuity?
6. What is 'Pacific Ring of Fire'?
7. Define Tripple junction.
8. What is MOR?
9. What is hotspot?
10. Which two plates are involved in formation of the Barren Island?
11. What is a caldera?
12. What is nappe?
13. Define faultline scarp.
14. What is mountain front sinuosity?

Please Turn Over

**Category - B**

Answer **any five** questions (each within **125** words).

**5×5**

15. Differentiate between relative and absolute dating of rocks.
16. What were the major events that occurred during the Pleistocene?
17. What do you mean by structural differentiation of the earth?
18. Differentiate between normal fault and reverse fault with help of diagrams.
19. Explain the tectonic characteristics and resulting landforms of an Ocean-Continent convergent plate margin.
20. Classify volcanic eruptions on the basis of their explosiveness.
21. Why basin asymmetry factor is considered as a morphometric index of tectonic activity?

**Category - C**

Answer **any two** questions (each within **500** words).

**15×2**

22. Classify folds with suitable diagrams and mention the bases of such classification.
23. Explain the major relief features of the ocean floor according to plate tectonics.
24. Compare the models of isostasy as proposed by Pratt and Airy and add a short note on their applicability.
25. Classify mountains on the basis of their mode of origin and explain each type with the help of suitable diagrams.