

2021

GEOGRAPHY — HONOURS

First Paper

Full Marks : 100

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

Module – I

[Geotectonics and Geomorphology]

(Marks : 50)

Category – A

Answer *any three* questions (each within **600** words).

10×3

1. How can plate tectonic theory explain the formation of young fold mountains?
2. Discuss the theory of isostasy as put forward by Pratt and Airy.
3. Describe and explain the solutional landforms found in a Karst region.
4. Analyse the evolution of landforms produced by the processes of aeolian deposition.
5. Give an account of Davis' normal cycle of erosion with sketches.

Category – B

Answer *any five* questions (each within **150** words).

4×5

6. Distinguish between normal fault and reverse fault.
7. How can sea floor spreading be explained by palaeomagnetism?
8. Distinguish between 'pahoehoe' and 'aa' types of lava.
9. Why is chemical weathering predominant in humid tropics?
10. Explain the characteristics of yardang and zeugen.

Please Turn Over

11. Briefly explain the formation of granitic landforms.
12. Distinguish between peneplain and pediplain.
13. What is endrumpf ?

Module – II

[Hydrology and Oceanography]

(Marks : 50)

Category – A

Answer *any three* questions (each within **600** words).

10×3

14. Discuss the scope and content of hydrology.
15. Describe with suitable diagrams the different phases of run-off cycle.
16. Explain the processes of groundwater recharge and discharge.
17. Discuss the various factors controlling ocean currents.
18. Discuss the favourable conditions for the growth and development of different types of coral reef.

Category – B

Answer *any five* questions (each within **150** words).

4×5

19. Describe the different components of basin hydrological cycle.
 20. Discuss the different types of aquifer with suitable diagrams.
 21. Write a short note on T-S diagram.
 22. Discuss the origin of different types of springs.
 23. Explain the tectonic characteristics of mid-oceanic-ridges.
 24. What are the different types of ocean waves?
 25. Discuss the influence of vegetation on surface runoff.
 26. Classify 'water mass' and give examples.
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