

2023

GEOGRAPHY — HONOURS

Paper : DSE-A-1 and DSE-A-2

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

Paper : DSE-A-1

(Fluvial Geomorphology)

Full Marks : 50

Category - A

Answer *any five* questions (each within 50 words).

2×5

1. Define meandering channel.
2. Differentiate between pools and riffles.
3. What is ecological flow of a river?
4. What is Hjulström curve?
5. How are badlands formed?
6. Define fluvial morphodynamics.
7. A drainage basin is considered to be a system. — Justify.

Category - B

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

5×4

8. Write a short note on morphology of alluvial fan.
9. Discuss Horton's law of stream number.
10. How do channel forms adjust to climatic change?
11. Discuss the bases of Rosgen's stream classification.
12. State the different causes of river bank erosion.
13. Distinguish between paired and unpaired terraces of river.

Please Turn Over

Category - C

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

10×2

14. Justify the various types of human interventions on fluvial systems with suitable examples.
15. Explain the formation of major accretional topography under fluvial environment.
16. Discuss in brief the areal and linear properties of drainage basin.
17. Discuss the principles of Integrated Watershed Management with suitable example.

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Paper : DSE-A-2**(Climate Change : Vulnerability and Adaptations)****Full Marks : 50****Category - A**Answer *any five* questions (each within 50 words).

2×5

1. What is meant by carbon trading?
2. Define the term — 'Holocene climate optimum'.
3. What is atmospheric window?
4. Mention four impacts of climate change on flora and fauna.
5. Define the science of climate change.
6. Write two steps that can be taken by educational institutions for awareness generation on climate change.
7. What are the salient features of 'National Solar Mission'?

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5×4

8. Mention the impacts of global warming on human health.
9. Highlight the role of climate fund in mitigating adverse climatic changes in developing countries.
10. State the salient features of National Action Plan for climate change in India.
11. What are the basic tenets of Kyoto Protocol?
12. Explain, in brief, the role of urban local bodies on climate change mitigation.
13. Distinguish between 'adaptation' and 'mitigation' in relation to climate change with the help of suitable examples.

Please Turn Over

Category - C

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

14. Review few geological evidences and records to prove the paleoclimatic change. 10
15. Summarize the key findings of global climate assessment with reference to IPCC reports. 10
16. Discuss the economic and social vulnerability of climate change with suitable examples. 10
17. Analyse the climate change vulnerability of South Asia with suitable examples. 10

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