

2020

GEOGRAPHY — HONOURS

Paper : DSE-A-1

(Fluvial Geomorphology)

Full Marks : 50

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

2×5

1. What are fill terraces?
2. What are lift and drag forces?
3. What is elongation ratio?
4. State Horton's law of basin area.
5. What is basin circularity ratio?
6. How does river bank erosion affect land use?
7. What is a badland?

Category - B

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

5×4

8. 'Drainage basin is an open system.'– Elucidate.
9. Discuss the characteristics of large rivers of the tropics.
10. Discuss the impacts of sea level change on fluvial system.
11. Write a short note on alluvial fan.
12. Explain the difference between mottled zone and pallid zone.
13. What do you mean by ecological flow of a river?

Please Turn Over

Category - C

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

10×2

14. Explain the characteristics of sediment entrainment and transport as revealed from the Hjulström Curve.
 15. Describe the linear properties of a drainage basin.
 16. How does human intervention affect fluvial system and what are its consequences?
 17. Discuss the major components and factors controlling run off.
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