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U.G. 6th Semester Examination - 2025

GEOGRAPHY

[HONOURS]

Discipline Specific Elective (DSE)

Course Code: GEO-H-DSE-T-03A
(Fluvial Geomorphology)
[NEW SYLLABUS under CBCS]

Full Marks: 60

Time: $2\frac{1}{2}$ Hours

The figures in the right-hand margin indicate marks.

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

- 1. Answer any **ten** of the following: $2 \times 10 = 20$
 - a) What is channel substrate?
 - b) Define discharge.
 - c) Differentiate braided channel from anabranching channel.
 - d) What is wetted perimeter?
 - e) Define hypsometric integral.
 - f) Define strath terraces.
 - g) What is stream ordering?
 - h) What is drainage density?

[Turn Over]

- i) Define drainage basin.
- i) What is overland flow?
- k) What is avulsion?
- 1) Differentiate dams from barrages.
- m) What is neeranchal programme?
- n) What is watershed?
- o) What is bifurcation ratio?
- 2. Answer any **four** of the following: $5 \times 4 = 20$
 - a) State the fluvial hydrosystem approach to the study of river basin.
 - b) Discuss the important morphometric measurements to analyse the shape of the river basins.
 - c) Mention different types of accretion and their significance in fluvial landscape development.
 - d) Write the significance of different types of hypsometric curves in fluvial geomorphology.
 - e) What are the favourable conditions for the formation of alluvial fan?
 - f) Identify the important management strategies of river bank erosion.

- 3. Answer any two of the following: $10 \times 2 = 20$
 - a) Discuss the linear properties for the morphometric analysis of a drainage basin.

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- b) Identify the stages of run off cycle. Analyse major determinant factors of run off process. 4+6=10
- Account for the development of different types of channel pattern. 2+8=10
- d) What are the important strategies of IRBM? Explain the significance of watershed management. 4+6=10