U.G. 6th Semester Examination - 2024
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 a fluvial hydro-system?
- b) What is meander loop?
- c) What are anastomosing channels?
- d) What is the mid-channel bar?
- e) Identify different types of fluvial terraces.
- f) State Horton's law of stream length.
- g) What is bifurcation ratio?
- h) Draw a point bar and label it.
- i) Define run-off.

- j) Where does an alluvial fan form?
- k) What is sheet erosion?
- 1) State the formation of arcuate delta.
- m) State the importance of checkdam.
- n) Mention any two examples of badland topography.
- o) What is watershed management?
- 2. Answer any **four** of the following : $5 \times 4 = 20$
 - a) Comment on the approaches to the study of fluvial Geomorphology.
 - b) State the factors that control the channel pattern.
 - c) Explain the relief aspects of a drainage basin.
 - d) Write a short note on the geometry of the braiding channel.
 - e) Highlight the formation of river terraces.
 - f) Comment on the components of the IRBM approach.
- 3. Answer any **two** of the following: $10 \times 2 = 20$
 - a) Name different components of runoff. Discuss the controlling factors of surface runoff.

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4+6=10

- b) Elaborate areal properties for morphometric analysis of drainage basin. 10
- c) Make a classification of the river delta.

 Describe major erosional landforms in the fluvial landscape.

 4+6=10
- d) Enumerate major types of bank failure that induce river bank erosion. Comment on the impact of bank erosion on the land use of riparian corridors.