

U.G. 6th Semester Examination - 2023**GEOGRAPHY****[HONOURS]****Discipline Specific Elective (DSE)****Course Code : GEO-H-DSE-T-03A****(Fluvial Geomorphology)****[New Syllabus under CBCS]**

Full Marks : 60

Time : 2½ 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** from the followings: $2 \times 10 = 20$
- a) What is fluvial geomorphology?
 - b) What are the important fluvial processes?
 - c) What is channel pattern?
 - d) Define surface runoff.
 - e) What is neck cutoff?
 - f) What is the *Yazoo stream*?
 - g) Define point bar.
 - h) What is stream frequency?
 - i) What is gully erosion?

[Turn Over]

- j) What is meant by watershed?
- k) Identify the relief aspects of drainage basin morphometry.
- l) What is hypsometric curve?
- m) Give two examples of cuspate delta.
- n) State the major causes of river bank erosion.
- o) What is rainwater harvesting?

2. Answer any **four** of the followings : $5 \times 4 = 20$

- a) State the hydrological properties of a drainage basin.
- b) Explain the concept of fluvial hydro-system.
- c) Classify rivers based on channel patterns.
- d) Distinguish between alluvial fan and alluvial cone.
- e) Bring out the salient features of the river terraces.
- f) Mention important management strategies for river bank erosion.

3. Answer any **two** from the followings : $10 \times 2 = 20$

- a) What is base flow? Describe the runoff cycle with suitable diagrams. $2 + 8 = 10$
- b) Discuss the linear properties for morphometric analysis of drainage basins.

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- c) Enumerate the depositional landforms in fluvial landscape with suitable diagrams. 10
- d) What are the important strategies of IRBM? Explain the significance of watershed management. 4+6=10
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