

**U.G. 6th Semester Examination - 2021**

**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** questions: 2×10=20
- a) Define fluvial geomorphology.
  - b) What is channel pattern?
  - c) State the components of runoff?
  - d) What is braided channel?
  - e) Define point bar.
  - f) What is drainage basin?
  - g) What is relief ratio (Schumn, 1956)?
  - h) Define hypsometric curve.

- i) What is meant by morphometric analysis of river basin?
- j) Distinguish between alluvial fan and alluvial cone.
- k) What is river terrace?
- l) Give two examples of arcuate delta.
- m) Define watershed.
- n) What is river bank erosion?
- o) Name two factors responsible for river bank erosion.

2. Answer any **four** questions: 5×4=20
- a) Highlight the importances of the study of fluvial geomorphology in Geography.
  - b) Give the concept of fluvial hydro-system.
  - c) Why is drainage basin considered as an important hydrological unit?
  - d) Mention Horton's stream laws.
  - e) State the salient features of badland topography.
  - f) Comment on different management strategies of river bank erosion.

3. Answer any **two** questions:  $10 \times 2 = 20$
- a) Elaborate the concept of run off cycle with suitable diagrams. 10
  - b) Discuss the linear properties for morphometric analysis of drainage basin. 10
  - c) Enumerate the major accretional landforms in fluvial landscape with suitable diagrams. 10
  - d) Discuss the objectives and important strategies of integrated watershed management. 4+6

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