## 711/1/Geog. UG/6th Sem/GEO-H-DSE-T-03A/NS/22

U.G. 6th Semester Examination - 2022 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** questions:  $2 \times 10 = 20$ 
  - a) What is fluvial hydro-system approach?
  - b) Mention major types of river channel.
  - c) What is *anabranching* river?
  - d) What is channel gradient?
  - e) Define alluvial cone.
  - f) State Horton's Stream law of numbers.
  - g) What is bifurcation ratio?
  - h) What is the drainage basin hydrological cycle?
  - i) Define hypsometric integral.

[Turn Over]

- j) Where does an alluvial fan form?
- k) What is thalweg?
- 1) Give two examples of badland topography.
- m) Define check dam.
- n) What is *Neeranchal* programme?
- o) State four major objectives of watershed development.
- 2. Answer any **four** questions :  $5 \times 4 = 20$ 
  - a) What are the contemporary approaches of the study of rivers?
  - b) Indicate major controlling factors of the channel pattern.
  - c) Highlight the morphometric attributes of drainage basin.
  - d) Write a short note on geometry of river meander.
  - e) State salient features of river terraces.
  - f) Comment on the strategies of IRBM approach.
- 3. Answer any **two** questions :  $10 \times 2=20$ 
  - a) Identify different types of runoff. Analyse major determinant factors of run off process. 4+6=10
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- b) Discuss the areal properties for morphometric analysis of drainage basin. 10
- c) Classify delta. Explain different types of delta formation with suitable illustrations.

2+8=10

d) Bring out the causes of river bank erosion.
Discuss major types of bank failure with appropriate sketches. 4+6=10