

Geography (P.G.)

[CBCS]

M.Sc. Second Semester End Examination-2024

(Regular & Supplementary Paper)

PAPER-GEO-203

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate full marks

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

Illustrate the answers wherever necessary

[Use separate answer script for separate unit]

Unit – 17

[Fluvial Geomorphology]

[F.M. – 20]

Group-A

Answer any one question from the following:

1×8= 8

1. Explain change of 'at a station' hydraulic geometry with respect to discharge.
2. Explain the mechanism and effects of base level change.

(2)

Group-B

Answer any two questions from the following: 2x4 = 8

3. Examine the conditions for establishing graded condition along a stream.
4. Discuss modes of sediment transport
5. How does a channel evolve through dynamic equilibrium?
6. Illustrate any one model of drainage network development

Group -C

Answer any two questions of the following: 2x2 = 4

7. Differentiate Laminar flow from Turbulent flow?
8. Define hydraulic gradient.
9. Write down Manning's equation for estimating mean water velocity.
10. Define meander belt.

Unit – 18

[Fluvial Landform]

[F.M. – 20]

Group-A

Answer any one question from the following: 1x8= 8

1. Discuss the morphological characteristics of Brahmaputra floodplain with suitable illustrations.

(3)

2. Examine the controlling factors for the formation of badland topography.

Group-B

Answer any two questions from the following: 2x4 = 8

3. Explain the factors favourable for delta formation.
4. Discuss the impact of tectonic activity on the terrace system of Tista River Basin.
5. Explain the role of channel constriction in acceleration of down stream bank-erosion of the Brahmaputra floodplain.
6. Discuss, in brief, the controlling factors for erosion of Sundarban delta in coastal area.

Group -C

Answer any two questions of the following: 2x2 = 4

7. How does the fan system develop in Kosi basin
 8. What is meant by subaqueous delta?
 9. Mention the morphological characteristics of Gangani badland.
 10. Why is paired terrace called cyclic terracc?
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