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RNLKWC/M.Sc./ CBCS/HS/GEO/203/22

2022

GEOGRAPHY

[P.G]

(CBCS)

(M.Sc. Second Semester End Examination-2022)

PAPER-203

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks

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

Illustrate the answers wherever necessary

Use separate answer scripts for separate unit

Unit-17

[Fluvial Geomorphology]

Group-A

Answer any one question:

1x8= 8

1. Describe the factors affecting channel avulsion with suitable example.
2. Elucidate the relationship among discharge, velocity and flow-width in down-stream direction.

Group-B

Answer any two questions:

2x4= 8

1. Explain the characteristics of a graded stream.
2. How does base level shift by constructing large dams?

(2)

3. Describe Horton's model of drainage network development.
6. How does a channel acquire equilibrium condition?

Group-C

Answer any two questions:

2x2= 4

7. Define dynamic metastable equilibrium.
8. Briefly describe different process of river bank erosion.
9. What is temporary base level?
10. What is complex response?

Unit-18

Group-A

Answer any one question:

1x8= 8

1. Explain the controlling factors of badland formation with examples
2. Discuss the morphological characteristics of the Ganges delta.

Group-B

Answer any two questions:

2x4= 8

3. Write on the mechanism of three tier terrace formation along the Teesta River course.
4. Explain the role of channel constriction in acceleration of downstream bank-erosion of the river Brahmaputra
5. Discuss the role of lithology in terrance formation along the Brahmaputra river.
6. Write a short note on distributary streams of the Brahmaputra river.

(3)

Group-C

Answer any Two questions:

2x2= 4

7. What is constructive delta?
8. What is ravine?
9. What is meant by 'Satamukhi channel'?
10. How was the 'Young Brahmaputra' river formed?