

2022

GEOGRAPHY

[P.G.]

(CBCS)

(M.Sc. Third Semester End Examinations-2022)

PAPER-303

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 SCRIPT FOR EACH UNIT]

Unit -29

F.M. - 20

[Process - form Relationship in Fluvial System]

Group - A

Answer any one questions of the following: 1x8= 8

1. Describe different types of resisting and impelling force in different courses along a river.
2. Describe the various impacts of channel shifting with special reference to the Ganga river in West Bengal.

(2)

Group - B

Answer any two questions: **2x4= 8**

3. Describe successive stages of instream depositional landform development.
4. Write a short note on favourable places for deposition of sediment.
5. What is Integrated River Basin Management (IRBM)? What are the components of IRBM?
6. Describe different types of meander migration.

Group - C

Answer any two question: **2x2= 4**

7. What is meant by climate modification of fluvial system?
8. Define Critical and Available Shear Stress?
9. What is Reynold Number?
10. Why are paired terraces called cyclic?

Unit -30

F.M. - 20

[Applied Technique Fluvial Geography]

Group - A

Answer any one question: **1x8= 8**

1. Elucidate the methods and application of shape analysis techniques of a river basin.
2. Explain the field techniques for measuring discharge of a river.

(3)

Group - B

Answer any two questions: **2x4= 8**

3. Assess the impacts of large dam on river system.
4. Write down the relationship between bed forms and bed materials transport
5. Discuss the effects of human induced water stress on river ecosystems.
6. Compare the different stream ordering schemes based on their methods, merits and demerits.

Group - C

Answer any two question **2x2= 4**

7. What is channel avulsion?
8. Define entrainment.
9. Define hypsometric integral.
10. Distinguish dissection index from ruggedness index.