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14 (GGY-1) 1026

2021

(Held in 2022)

GEOGRAPHY

Paper : GGY-1026

(Geomorphology)

Full Marks : 80

Time : Three hours

***The figures in the margin indicate
full marks for the questions.***

Unit-I

(Principles and Concepts in Geomorphology)

Marks : 48

Answer **any two** questions from the following :

16×2=32

1. State the significance of system approach in Geomorphology. Elaborate the system concept associated with steady state and dynamic equilibrium condition considering steady time, graded time and cyclic time.

4+6+6=16

Contd.

2. Discuss the development trend of Geomorphology after the Davisian age with special emphasis on the recent developments. 16

3. State the importance of Fluvial Geomorphology as a major branch of Applied Geomorphology. Discuss the relevant techniques applied in fluvio-geomorphic studies. 6+10=16

Answer any two questions from the following :

8×2=16

4. Explain the concept and techniques of Palaeogeomorphological study. 2+6=8

5. State why the ideas of catastrophism cannot be ruled out in the study of geomorphology.

8

6. Elaborate the threshold concept in geomorphology and show how this concept can be applied to the study of bank erosion processes. 3+5=8

Unit-II

(Processes in Geomorphology)

Marks : 32

Answer Question No. 7 and any two from the rest.

7. Describe with diagrams, the aggradational and degradational processes and their resultant features in the flood plain.

8+8=16

Or

Elaborate with examples, how climate and vegetations affect the actions and intensities of geomorphic processes.

8+8=16

8. Explain the slope forming processes leading to development of secondary slopes. 8

9. What is a morphogenetic region? How do the various types of morphogenetic regions originate? 2+6=8

10. Write short notes on the following :

4×2=8

(a) Techniques to study depositional processes in a river

(b) Ideal slope profile and its slope elements.