

Total number of printed pages-4

14 (SEM-1) GGY 1026

2025

GEOGRAPHY

Paper : GGY-1026

(Geomorphology)

Full Marks : 80

Time : Three hours

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

Group-1

*Answer question no. 1 and any three from
the rest:*

1. Discuss the chronological evolution of the subject Geomorphology.

[M : 16/CO : 1/BL : Understand]

Or

Discuss the impact of the Davisian Concept as a foundation of modern geomorphology.

[M : 16/CO : 1/BL : Understand]

2. Illustrate how the principles of applied geomorphology can be used in urban planning or natural hazard assessment.
[M : 8/CO : 3/BL : Apply]
3. Analyse the concept of dynamic equilibrium and explain its importance in maintaining landscape stability.
[M : 8/CO : 2/BL : Understand]
4. Analyse the relevance of quantitative techniques in geomorphological research and mapping.
[M : 8/CO : 3/BL : Analyse]
5. Write short notes : *(any two)* 4×2=8
 - (a) System concept
 - (b) Threshold
 - (c) Steady-state equilibrium[M : 4×2=8/CO : 2/BL : Understand]

Group-2

Answer question no. 6 and any three from the rest :

6. Analyse the concept of morphogenetic regions, discussing the spatial variability of geomorphic process rates.
[M : 16/CO : 4/BL : Analyse]

Or

Give a detail analysis of the methods used in Geomorphic studies. Describe how introduction of Remote Sensing and GIS has changed nature of investigation in Geomorphology.

[M : 10+6=16/CO : 5/BL : Apply]

7. Explain the difference between endogenetic and exogenetic processes with suitable examples.

[M : 8/CO : 4/BL : Analyse]

8. Evaluate how slope-forming processes contribute to the evolution of different slope forms in humid and arid environments.

[M : 8/CO : 3/BL : Apply]

9. Apply appropriate methods and techniques to study geomorphic process rates and slope dynamics.

[M : 8/CO : 4/BL : Analyse]

10. Describe the application of field studies in Geomorphic Investigation.

[M : 8/CO : 5/BL : Apply]

11. Write short notes : *(any two)*

- (a) Bio-geomorphology
[M : 4/CO : 4/BL : Understand]
 - (b) Process study
[M : 4/CO : 4/BL : Understand]
 - (c) Alluvial fan
[M : 4/CO : 3/BL : Understand]
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