



'সমানো মন্ত্র: সমিতি: সমানী'

**UNIVERSITY OF NORTH BENGAL**

B.Sc. Honours 6th Semester Examination, 2022

**CC13-GEOLOGY**

**GEOMORPHOLOGY**

Time Allotted: 2 Hours

Full Marks: 40

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

1. Answer any **five** questions from the following: 1×5 = 5
  - (a) What is planetary geomorphology
  - (b) How does potential evapotranspiration affect an area's aridity index?
  - (c) "Complex wind directions can form transverse dunes"— Justify this statement.
  - (d) Describe a simple geomorphic system with example.
  - (e) Describe sediment transport rate on hillslopes.
  - (f) How wetness index is attributed to a specific catchment?
  - (g) What is geosyncline?
  - (h) What is meant by "fan apex"?
  
2. Answer any **three** questions from the following: 5×3 = 15
  - (a) How did the form and process controls the structure of any geomorphic system?
  - (b) Write down short notes on "Rock cycle".
  - (c) How can endogenic processes influence the evolution of the landscape?
  - (d) Write down brief note about "Yardangs".
  - (e) Describe three main forms of hillslope elements.
  
3. Answer any **two** questions from the following: 10×2 = 20
  - (a) Discuss different types of drainage patterns using relevant diagrams.
  - (b) Demonstrate how the backwearing and downwearing processes lead to the development of planar landforms.
  - (c) Discuss the various erosional landforms seen in a karst environment. Use relevant drawings to describe the different erosive formations seen in a karst setting.
  - (d) Write down the active and passive factors of rock weathering. How do these factors control the rock weathering?

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