



**UNIVERSITY OF NORTH BENGAL**  
B.Sc. Honours Part-III Examination, 2021

**GEOLOGY**

**PAPER-XV**

**GEOMORPHOLOGY AND GEODYNAMICS**

Full Marks: 50

**ASSIGNMENT**

*The figures in the margin indicate full marks.*

**Answer all the questions. All questions carry equal marks**

**GEOMORPHOLOGY**

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

$12\frac{1}{2} \times 2 = 25$

1. Answer any *one* from the following:
  - (a) Discuss different types of drainage patterns with suitable diagrams.
  - (b) Enumerate the important characteristics of an idealized fluvial cycle.
  
2. Answer any *one* from the following:
  - (a) What are the different erosional landforms observed in a Karst region? Discuss with suitable diagrams.
  - (b) Write a short note on "Yardangs" and "Barchans".

**GEODYNAMICS**

3. Answer any *two* questions from the following:
  - (a) Synoptically discuss the forces that influence motion of lithospheric plates.
  - (b) What is Isostasy? Discuss the different models used to explain isostasy.
  - (c) Illustrate and comment on the theoretically possible types of collision involving one or two subduction zones.
  - (d) Describe the geometry and stability of triple junction synoptically.

$12\frac{1}{2} \times 2 = 25$

—×—