



'समानो मन्त्रः समितिः समानी'

**UNIVERSITY OF NORTH BENGAL**  
B.Sc. Honours 4th Semester Examination, 2022

**CC9-GEOLOGY**

**PRINCIPLES OF STRATIGRAPHY AND INDIAN STRATIGRAPHY**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.*

1. Answer any **five** questions of the following: 1×5 = 5
  - (a) Craton and Shield
  - (b) Index fossil
  - (c) Uniformitarianism
  - (d) Closepet Granite
  - (e) Law of faunal succession
  - (f) Walther's law
  - (g) Abundance zone
  - (h) Disconformity.
  
2. Answer any **three** questions from the following: 5×3 = 15
  - (a) Describe the lithology of the Aravalli Supergroup. Give the subdivision of the Delhi Supergroup. 2+3
  - (b) Give an account of the Sausar Group highlighting on the succession and economic importance.
  - (c) Describe the lithostratigraphic succession of Vindhyan Supergroup. Write a short note on the mineral resources of the Vindhyan Supergroup. 4+1
  - (d) Write a short note on Magnetostratigraphy.
  - (e) How the upper age limit of Gondwana can be ascertained?
  
3. Answer any **two** questions from the following: 10×2 = 20
  - (a) Give an account of the Singhbhum craton highlighting on the stratigraphy, lithology, and economic importance.
  - (b) Describe the palaeogeographic evolution of extrapeninsular India during Palaeozoic with the help of lithostratigraphic succession of Spiti and Kashmir.
  - (c) Write a short note on the Cretaceous sedimentation history of Trichinopoly basin.
  - (d) "The Triassic passive margin open marine sedimentation transformed into Jurassic-Cretaceous active margin condition" — Justify the statement with the help of sedimentation record from Triassic to Cretaceous in Spiti.

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