

2036

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8. Discuss the concept of supercontinent cycle and its evidences in geology. Explain the evolution of east and west coastline of India and the age of sedimentary succession developed.

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 2036

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Unique Paper Code : 2192012403

Name of the Paper : Geology of India

Name of the Course : **B.Sc. (Hons.) Geology, NEP-UGCF**

Semester : IV DSC-12

Duration : 3 Hours

Maximum Marks : 90

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Answer any **five** questions.
3. **All** questions carry equal marks unless mentioned.

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1. Discuss stratigraphic classification and tectonic setting of the Aravalli Craton with suitable sketch. Comment on the mineral resources of Aravalli Craton.
2. Answer any **three** of the followings :
 - (a) Tools of paleogeographic reconstruction
 - (b) Greenhouse and icehouse periods on the Earth
 - (c) Triassic succession of Spiti
 - (d) Precambrian-Cambrian transition
3. Discuss merits and limitations of various methods of stratigraphic analysis and comment on most suitable methods for stratigraphic analysis according to you with justification. Define lithostratigraphic units with suitable examples from India.
4. Discuss the Siwalik Group stratigraphy, depositional environment and its fossil record. Comment on the paleogeographic setting of India during deposition of Siwalik successions.

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5. Comment on the diagnostic characters of Proterozoic basins. Explain the tectonic evolution, stratigraphy and depositional environments of the Cuddapah Supergroup.
6. Describe Deccan Trap stratigraphy, comment on the significance of inter-trappeans sediments. Discuss the mode of emplacement of continental flood basalts (CFB) and comment on the effect of Deccan volcanism on K/Pg mass extinction.
7. Write short notes on **three** of the followings :
 - (a) Evolution of Gondwana flora
 - (b) Tectonic evolution of the Singhbhum Craton
 - (c) Subdivisions of Cenozoic
 - (d) Global Stratotype Section and Point (GSSP)

P.T.O.