

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 1872

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Unique Paper Code : 2193012003

Name of the Paper : Introduction to Field Geology

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

Semester : IV DSE-2

Duration : 2 Hours

Maximum Marks : 60

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Answer any **four** questions in all.
3. **All** questions carry equal marks.
4. Question **one** is compulsory.

1. During the geological field investigation of a riverbed, you observed various rock fragments:
 - a) Describe your field observations
 - b) Classify the fragments based on their size and shape
 - c) Analyze their probable transport history
 - d) Interpret the likely depositional environment
2. (a) Explain the importance of lithology preparation in geological fieldwork, outlining the methods of its preparation and its role in depositional environment interpretation.
(b) Describe the field characteristics of soft-sediment deformation structures, processes of their formation and geological significance.
3. During a field excursion to the Himalayan region, you observe a sequence of folded rocks: describe the field characteristics of these fold structures and identify the types of folds present.
4. Describe the essential tools and equipment used in geological field training. Explain the primary function and practical application of each tool in field investigations, highlighting their role in observation, measurement, sampling, and data recording.

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5. Explain how contour patterns help in identifying different landforms. During fieldwork, you observe closely spaced contours in one area and widely spaced contours in another: comment on your observations, interpret the slope conditions and explain their geological significance.
6. Describe the stratigraphic classification and lithological composition of the Lesser Himalayan sequence.