

[This question paper contains 3 printed pages]

Your Roll No. :

Sl. No. of Q. Paper : **5726** **I**

Unique Paper Code : 2193012003

Name of the Paper : Introduction to Field
Geology

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

Semester : IV

Time : 2 Hours **Maximum Marks : 60**

Instructions for Candidates :

- (a) Write your Roll No. on the top immediately on receipt of this question paper.
- (b) Attempt any **four** questions in **all**. **All** questions carry equal marks.

1. Write short notes on the following :

- (a) Clast roundness
- (b) Mud cracks
- (c) Load structures
- (d) Stretching lineation
- (e) Map scale

P.T.O.

2. (a) Briefly describe the geomorphic features associated with normal faulting.
- (b) With the help of a diagram, briefly describe the dip and strike of an inclined plane. Also, define the rake of a lineation present on that inclined plane.
- (c) How do the climbing ripples form ?
3. (a) What is magnetic declination ? How does it affect the bearing measured through the Brunton compass ?
- (b) Describe the morphology of a river valley. Make a contour diagram of a river valley with a prominent knick point.
4. (a) How do topographic contours provide valuable information about the land surface's elevation, slope steepness, and the overall terrain characteristics, and how can this information be utilized in geological mapping ?
10
- (b) Using suitable diagrams, briefly describe the different components of a Brunton compass and its application .
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5. (a) How do we prepare the litholog of a sedimentary succession ?
- (b) Briefly describe the aeolian landforms produced by erosive processes.
- (c) How do the fluvial terraces form ?
6. How do you differentiate between the following in the field ?
- (a) Fluvial terrace and alluvial fan
- (b) Normal grading and reverse grading
- (c) Dextral and sinistral strike-slip faulting
