

[This question paper contains 2 printed pages.]

Your Roll No.

5878

B

B.Sc. (Hons.) Geology/I Sem.

Paper—GEHT-103 : Geomorphology & Photogeology
(Admissions of 2010 and onwards)

Time : 3 Hours

Maximum Marks : 75

(Write your Roll No. on the top immediately on receipt of this question paper.)

Attempt *Five* questions in all. Q. No. 1 is compulsory and attempt *two* questions each from Section A and B.

All questions carry equal marks.

Draw labelled diagrams wherever necessary.

Calculator is not allowed.

1. Write detail notes on :
 - (a) Geomorphic process-response system
 - (b) Equilibrium and evolution.

Section A

2. Compare and contrast the effects of flowing water and wind on landform generation.
3. (a) Explain Hill slope forms.
(b) Explain briefly weathering zone scheme given by Georges Pedro.

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4. Discuss and compare the landscape evolution models given by Davis and Hack.
5. With suitable diagram illustrate landforms found at active strike-slip fault. Describe the landforms briefly.

Section B

6. What is topographic displacement ? Derive the formula to calculate topographic displacement.
7. Expand the following acronyms and describe them in short :
 - (1) LISS
 - (2) CCD
 - (3) LIDAR
 - (4) NDVI
 - (5) GCP
 - (6) ASTER
 - (7) UTM.
8. What is FCC ? How would following features appear in standard FCC and why ?
 - (a) Barren land
 - (b) Water and
 - (c) Vegetation.