

This question paper contains 3 printed pages]

Roll No.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

S. No. of Question Paper : 6163

Unique Paper Code : 219104

D

Name of the Paper : GEHT 103/Geomorphology and Photogeology

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

Semester : I

Duration : 3 Hours

Maximum Marks : 75

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

Attempt five questions. One question from each Section is compulsory. Draw labelled diagrams wherever necessary. Calculator is not allowed.

All questions carry equal marks.

Section A

1. With suitable examples explain different types of geomorphic system.

Section B

2. Explain any four erosional landforms developed by the fluvial action.
3. (a) Explain briefly different types of mass wasting processes.
(b) Explain briefly mountain building process.

P.T.O.

4. Discuss and compare the landscape evolution models of Davis and Hack.
5. Write short notes on any *two* of the following :
 - (a) Hanging valley
 - (b) Cirque
 - (c) Fjord
 - (d) Moraines.

Section C

6. Write short notes on any *two* :
 - (a) Scale
 - (b) Absolute parallax of a point
 - (c) Vertical Exaggeration.
7. (a) Derive the formula to calculate topographic displacement.

(b) The distance from the nadir to the base of a building is 3.42 in. and to the top of the same building is 3.60 in. The flying height above sea level was 11200 ft. and the ground elevation of the base of the building is 1200 ft. Calculate the height of the building.

8. Explain and compare the spectral response pattern of the following features under spectrum used in LISS III sensor :

(a) Deep water

(b) Shallow water

(c) Dry river bed

(d) Dry soil.