

This question paper contains 3 printed pages]

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S. No. of Question Paper : 6568

Unique Paper Code : 32191502 HC

Name of the Paper : Geomorphology

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

Semester : V

Duration : 3 Hours

Maximum Marks : 75

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

Answer any *five* questions.

All questions carry equal marks.

1. (a) What is the geometrical shape of the Earth ?
Why ?

(b) What is continental freeboard ? How can we
calculate it ?

2. Describe the depositional landforms developed by glacial
action.

P.T.O.

3. (a) How would a river respond to the lowering of sea level in the coastal area (considering relatively steep slope of the continental shelf) ?
- (b) How would a river respond to a slowly uplifting block along its course ?
- (c) When and under what circumstances does an alluvial fan forms ?
4. Describe in detail the erosional features found at a rocky coast.
5. Write short notes on the following :
- (a) Threshold
- (b) Magnitude and frequency
- (c) Solifluction.
6. Discuss any *two* of the following concepts of geomorphology :
- (a) Concept of equifinality
- (b) Concept of Uniformitarianism
- (c) Geomorphic threshold.

7. Write short notes on any *two* of the following :
- (a) Manning's equation
- (b) Reynold's number
- (c) Froude number.
8. Discuss how Earth's Energy Budget maintains its average temperature.