

*This question paper contains 2 printed pages.*

*Your Roll No. ....*

*Sl. No. of Ques. Paper* : 8573 C

*Unique Paper Code* : 219104

*Name of Paper* : GEHT 103 – Geomorphology and Photogeology

*Name of Course* : B.Sc. (Hons) Geology Part I

*Semester* : I

*Duration* : 3 hours

*Maximum Marks* : 75

*Attempt five questions in all. Question No. 1 is compulsory. Attempt at least one question from each Section. All questions carry equal marks.*

1. Explain briefly the major landforms you would come across while travelling from Kanyakumari to Shimla.

#### SECTION A

2. Describe different types of geomorphic systems with example.
3. Differentiate between any *two* of the following in detail :
  - (a) 'Davis' and 'Penck' models of long term landscape evolution.
  - (b) Formation of a 'Barchan' and a 'Parabolic' dune.
  - (c) Waves and Tides.
4. Answer the following :
  - (a) How do river terraces form?
  - (b) How is sediment transported in rivers?
  - (c) Morphological and sedimentological characteristics of an alluvial fan.
5. Explain the processes of glacial erosion and deposition. Briefly describe any *two* landforms each formed by these processes.

#### SECTION B

6. Differentiate between any *three* of the following :
  - (a) Spatial resolution and Temporal resolution
  - (b) Nadir point and Isocenter

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- (c) Stereogram and Stereoscope
  - (d) Average scale and Point scale.
7. Explain the principles of aerial photograph interpretation.
8. Explain any *two* of the following :
- (a) Vertical exaggeration
  - (b) FCC
  - (c) Wein's displacement law.