

Roll No. : .....

Total No. of Questions : 11 ]

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# GEOLSEM-127

M.Sc. (Ist Semester) Examination, Dec., 2022

## GEOLOGY

Paper - GEOL-102

(Geomorphology and Geotectonics)

Time : 3 Hours ]

[ Maximum Marks : 75

The question paper contains three Sections.

### Section-A

(Marks : 2 × 10 = 20)

**Note** :- Answer all *ten* questions (Answer limit 50 words). Each question carries 2 marks.

### Section-B

(Marks : 5 × 5 = 25)

**Note** :- Answer all *five* questions. Each question has internal choice (Answer limit 200 words). Each question carries 5 marks.

### Section-C

(Marks : 10 × 3 = 30)

**Note** :- Answer any *three* questions out of five (Answer limit 500 words). Each question carries 10 marks.

### Section-A

1. (i) What is the principles of Uniformitarianism ?
- (ii) Define Weathering.
- (iii) Hanging valley.

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- (iv) What is UVALAS ?
- (v) Define the Desert.
- (vi) What are characteristics of Rocky Coasts ?
- (vii) Low velocity zone.
- (viii) Geothermal Gradient.
- (ix) What is Epirogeny ?
- (x) Geosyncline.

**Section-B**

2. Describe the four major morphogenetic zones.

*Or*

Discuss mass wasting or gravitative transfer.

3. Describe the speleothems structures.

*Or*

Discuss the type of deserts with examples.

4. Describe the coastal landforms with suitable diagram.

*Or*

Effect of Himalayas on the evolution of Indo-Gangetic plain.

5. Describe the mid-oceanic ridges.

*Or*

Discuss the seismic characteristics of Mantle.

6. Describe the theory of Isostasy.

*Or*

Discuss the sea-floor spreading.

### **Section–C**

7. Describe the Fundamental concepts of Geomorphology.
8. Discuss the Erosional and depositional features associated with Glacial cycle.
9. Describe major geomorphological sub-division of India.
10. Describe the composition, gravity and magnetic characteristics of crust.
11. Discuss the continental drift theory and give the evidence that support continental drift.