

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.