

Roll No. : .....

Total No. of Questions : 11 ]

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# **BPP-1086**

**M.Sc. (Previous) Examination, 2022**

**GEOLOGY**

Paper - I

**(Structural Geology, Geotectonics and Geomorphometry)**

*Time : 3 Hours ]*

*[ Maximum Marks : 75*

**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. Answer all *ten* questions :

- (i) Define Strain.
- (ii) What are homogenous deformations ?

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- (iii) What are superimposed folding ?
- (iv) What are Linear structure ?
- (v) What is strike-slip fault ?
- (vi) Define Cleavage.
- (vii) What is heat flow ?
- (viii) Define Isostasy.
- (ix) What is a Glaciers ?
- (x) What is Stack ?

### **Section-B**

#### **Unit-I**

2. Describe the types and analysis of Deformation.

*Or*

Write note on factors controlling behavior of rock materials.

#### **Unit-II**

3. Describe the Geometric classification of Fold.

*Or*

Write note on types of linear structure and their significance.

#### **Unit-III**

4. Write a detailed note on Fracture and Joints.

*Or*

Write a detailed note on shear zones.

#### **Unit-IV**

5. Describe the structure and evolution of Indogangatic alluvial plains.

*Or*

Write note on Sea floor spreading.

#### **Unit-V**

6. Describe the Geomorphology of shorelines and ocean floor.

*Or*

Write on fluvial geomorphic structure of Streams.

#### **Section-C**

7. Describe the ductile behavior of rocks.
8. Describe the classification of Fault.
9. Describe in detail about types and origin of Cleavage.
10. Describe in detail about Palaeomagnetism.
11. Describe in detail major Geomorphological Sub-division of India.