

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

BPG–1098

M.Sc. (Previous) Examination, 2021

GEOLOGY

Paper - I

(Structural Geology, Geotectonics and Geomorphometry)

Time : 1½ 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

2 each

1. (i) Draw the labelled diagram of strain ellipsoid.
- (ii) What is Viscoelasticity ?

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- (iii) What is Reclined Fold ? Draw it diagram.
- (iv) What is Recumbent Fold ? Give its example in Himalayas region.
- (v) Describe Crenulation Cleavage.
- (vi) What is overthrust fault ? Give a labelled diagram.
- (vii) What is Ringwoodite ? Where we can find it ?
- (viii) Write the name of Indian example of Epeirogenetic mountain.
- (ix) Write down any *two* concepts of Geomorphology.
- (x) What is Inselbergs ?

Section-B

5 each

2. What is Stress ? Give the analysis of stress at a point and stresses acting on a plane.

Or

- (a) Write short note on type of stress.
 - (b) Write short note on stress at subduction zone.
3. Describe genetic classification of fold in short.

Or

What is Lineation ? Describe its types.

4. Describe strike slip faults with suitable diagrams.

Or

Describe normal faults with suitable diagrams.

5. What are Shields and Platforms ? Give short note.

Or

Describe continental drift.

6. Describe erosional fluvial landforms.

Or

Describe Aeolian depositional landforms.

Section–C

10 each

7. Describe the determination of strain in rocks in detail.

8. Describe the structural analysis in terrains with multiple deformations.

9. What are Joints ? Give a detailed note on joints.

10. Give a detailed note on structural evolution of Himalayas Region.

11. Write a detailed note on Coastal landforms. Give a comparative note on landform difference of Eastern and Western coast landforms of India.