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S. No. of Question Paper: 8581

Unique Paper Code

219301

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Name of the Paper

: GEHT 301 : Structural Geology

Name of the Course

: B.A. (Hons.) Geology (Part II)

Semester

: III

Duration: 3 Hours

Maximum Marks: 75

(Write your Roll No. on the top immediately on receipt of this question paper.) Attempt any five questions.

All questions carry equal marks.

- What are folds? Give their geometrical properties. Discuss the significance of co-ordination 1. of hinge lines and axial surfaces in fold classification with suitable illustrations.
- Briefly describe the "strain ellipse concept" and its applicability in the development of various 2. structures in a deformed region.
- Give a brief account of various planar structures. Add a small note on their significance. 3.
- What are joints? How do they differ from faults? Give a genetic and geometrical classification 4. of joints.
- Briefly describe how Beta and Pie diagrams are helpful in solving simple structural geology 5. problems.
- Differentiate with suitable sketches: 6.
 - Strike fault from strike-slip fault
 - Recumbent fold from reclined fold.
 - Fault surface from an unconformable surface

P.T.O.

- 7. Write short notes on the following:
 - (i) Boudinage structure and its significance
 - (ii) Intersection lineation
 - (iii) Strain ellipse concept
 - (iv) Mylonite
 - (v) Disjunctive cleavage
- 8. What is 'stress'? Define mathematically, the stress system at a point within a three-dimensional body.