

This question paper contains 2 printed pages;

Roll No.

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S. No. of Question Paper : 811

Unique Paper Code : 219301

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Name of the Paper : GEHT-301: Structural Geology

Name of the Course : B.Sc. (Hons.) Geology

Semester : III

Duration : Three 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.

1. Write explanatory notes on the following :
 - (a) Pure shear and simple shear homogeneous deformation
 - (b) Genetic aspects of folding
2. How would you identify folds in the field ? Give their geometric classification based on :
 - (i) Interlimb angle .
 - (ii) Dip isogons.
3. Write short notes on any *three* of the following :
 - (a) Top - bottom criteria in rock sequences
 - (b) Intersection lineation
 - (c) Joints in folded sequence
 - (d) Klippe and Tectonic window

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4. Write explanatory notes on any *two* of the following :
 - (i) Strain ellipse concept
 - (ii) Tectonites and their significance
 - (iii) Identification criteria of fold and faults in the field
5. How would you distinguish between Fault and Joint ? Give the geometric classification of faults.
6. Write short notes on :
 - (i) Pi and beta diagram
 - (ii) Strain marker
 - (iii) Sedimentary Structure
 - (iv) Joints in volcanic terrain.
7. Distinguish between the following :
 - (i) Slaty cleavage & Crenulation cleavage
 - (ii) Upright fold & Recumbent fold
 - (iii) Normal Fault & Strike - slip fault
8. Diagrammatically show and label any *three* of the following :
 - (i) Plunging and non-plunging fold
 - (ii) Upright and neutral fold
 - (iii) Normal fault and strike slip fault
 - (iv) Angular unconformity and thrust