

Roll No.

Total Pages : 2

CMDE/M-24

4717

STRUCTURAL GEOLOGY AND TECTONICS

Paper-G-202

Time Allowed : 3 Hours]

[Maximum Marks : 75

Note : Attempt **five** questions in all, selecting **one** question from each Unit. Question No. **1** is compulsory. All questions carry equal marks.

Compulsory Question

1. Write short notes on the following :

- (a) Principal stress. (b) Reverse faults
- (c) LS- tectonites. (d) Suture zone.

UNIT-I

- 2. Discuss the Strain markers in Naturally deformed rocks.
- 3. Define and discuss the Mechanical principles and properties of Rocks.

UNIT-II

- 4. What do you mean by Foliations? How do Foliations developed in the Rocks? Classify Foliations.

5. Comment on the following :

- (a) Flexure folding.
- (b) Strike slip faults.

UNIT-III

- 6. Discuss symmetry of in petro-fabrics.
- 7. Explain time relationship between Crystallization and Deformation.

UNIT-IV

- 8. Discuss major tectonic divisions of the Himalaya.
- 9. Comments on the following :
 - (a) Zagros-Himalayan orogeny.
 - (b) Evolution of volcanic island arc.