

PSCGEOE-6 - Elective Paper-I - Structural Geology, Geodynamics and Tectonics

P. Pages : 2

Time : Three Hours



GUG/W/24/15386

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Draw neat sketches wherever necessary.

1. Describe in detail the methods of strain measurements in naturally deformed rocks.

OR

Describe in brief.

- a) Classes of stress.
- b) Stress Trajectory.
- c) Graphical representation of strain.
- d) Theories of rock Failure.

2. Write in detail about the Ramasay's classification of folds.

OR

Describe in brief-

- a) Flexural slip folding
- b) Linear fabrics in deformed rocks
- c) Concept of Petro-fabrics
- d) Decollement

3. Describe in detail types, geometry and products of shear zones.

OR

Describe in brief-

- a) Planar structure
- b) Classification of joints
- c) Thin-skinned deformation
- d) Normal faults

4. Describe in detail internal structure of earth.

OR

Describe in brief-

- a) Wilson cycle
- b) Hot spots
- c) Sea-floor spreading
- d) Diapirs.

5. Write short notes on-

- a) Mohr circle construction
- b) Progressive deformation
- c) Biot's law
- d) Boudinage
- e) Origin of Mylonites
- f) Unconformities
- g) Supercontinents
- h) Cratons of India.
