

M.Sc. (Geology) (NEP Pattern) Semester-II
PSCGEOE-6 - Elective Paper-I - Structural Geology, Geodynamics and Tectonics

P. Pages : 2

Time : Three Hours



GUG/S/25/15386

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 strain analysis.

OR

Write short notes on-

- a) Theories of rock failure.
- b) Two-dimensional stress analysis.
- c) Stress-strain relationship.
- d) Types of strain ellipsoids.

2. Describe in detail genetic classification of folds.

OR

Write short notes on-

- a) Planar fabrics.
- b) Shear folding.
- c) Boudinage.
- d) Description of folds.

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

OR

Write short notes on-

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

4. Describe in detail sea-floor spreading.

OR

Write short notes on-

- a) Diapers and salt-domes.
- b) Concept of continental drift.
- c) Pros and Cons of plate tectonics.
- d) Wilson cycle.

5. Write short notes-

- a) Mechanical properties of rocks
- b) Concept of stress and strain
- c) Kink bands
- d) Decollement
- e) Lineation
- f) Strike - Slip faults
- g) Gondwana Land
- h) Hot-spots
