

5402

2008 – 2009  
M.Sc. (I SEMESTER) EXAMINATION  
APPLIED GEOLGOY  
STRUCTURAL GEOLOGY AND TECTONICS  
GLM - 7002  
Maximum Marks: 70  
Duration: Two Hours

Answer all questions.

1. Define 'stress' and 'strain'. Enumerate different kinds of strain associated with homogeneous deformation and how they are graphically represented. (17)
  2. What are axial plane cleavages? Describe their relation with fold geolometry. Discuss fanning and refraction of cleavage. (18)
- OR
- 2'. Discuss the dynamics of normal and strike-slip faults. How the principal stress is related to faulting?
  3. Describe the dynamic evolution of continental and oceanic crust. (17)
  4. Explain the following: (18)
    - (a) Crystalline core zone
    - (b) High angle fault zone.
- OR
- 4'. Describe the following:
    - (a) Plume Tectonics
    - (b) Microstructures in deformed rocks.
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