

2009-2010  
M.Sc. (I SEMESTER) EXAMINATION  
(APPLIED GEOLOGY)  
STRUCTURAL GEOLOGY AND TECTONICS  
(GLM-7002)

Maximum Marks: 70

Duration: Two Hours

Answer all questions.

1. ✓ Give stress equations. Describe in detail how they are graphically represented in Mohr's Stress diagram. 17

OR

- 1'. Describe in detail the mechanism of generation of flexural slip and flexural flow folds.
2. Write detailed notes on the following: (18)
  - (a) Origin of lineation
  - (b) Origin of Bedding cleavage
3. ✓ Give an account of origin and evolution of major tectonics features of the oceanic crust. 17

OR

- 3'. Write explanatory notes on the following:
  - (a) Precambrian shield ✓
  - (b) Middle Proterozoic mobile belt ( MPMB ) of Indian shield ✓
  - (c) Continental Margins. ✓
4. ✓ Discuss the following in detail: 18
  - ✓(a) Plate Tectonics
  - ✓(b) Foreland Basins.