

2008-2009
B.Sc.(HONS.) (PART-III) EXAMINATION
(GEOLOGY)
STRUCTURAL GEOLOGY
(GL-314)

Maximum Marks: 40

Duration : Three Hours.

Answer all questions.

1. Discuss the role of confining pressure and time in deformation of rocks with suitable diagram. 07

OR

- 1'. Write explanatory notes on the following:
 - (a) Evidence of plastic deformation
 - (b) Creep.
2. Describe various types of unconformity with suitable sketches. 06

OR

- 2'. Write detailed notes on the following:
 - (a) Serpentinite diapirs.
 - (b) Significance of basal conglomerate in an unconformable sequence.
3. Define fold. Describe the various types of folds according to their geometry. Illustrate your answer with fully labelled sketches. 07
4. Define fault. Describe the criteria for recognition of faults in the field and on geological maps. 07

OR

- 4'. Write notes on the following:
 - (a) Klippe and Nappe
 - (b) Horst and Graben
 - (c) Strike- slip fault and strike fault.
5. Describe the various types of lineation and discuss their relation to major structures. 07
6. Discuss the various criteria for determination of stratigraphic superposition with the help of neat sketches.