

2008-2009
 B.Sc (HONS.) (PART-III) EXAMINATION
 (GEOLOGY)
 IGNEOUS PETRO. & DYNAMICS OF EARTH
 (GL-313)

Maximum Marks: 40

Duration : Three Hours.

Answer all questions.

1. Give an account of mineralogical and chemical composition of mantle. Substantiate the answer with suitable evidences. 06

2. Describe the Albite- Anorthite system. Add a note on development of zoning in minerals. 07

OR

2'. Write detailed notes on the following:

- (a) Mineralogical Phase Rule
- (b) Eutectic crystallization

3. Describe general characteristics of Komatiites or Tonalite - Trondhjemite-Granodiorite. 07

4. Explain the concept of isostasy. Briefly describe various theories of isostasy. 06

5. Give a descriptive account about the nature and types of plate margins. 07

OR

5'. Write comprehensive notes on the following:

- (a) Mid - Oceanic Ridges.
- (b) Trenches.

6. What is neotectonics? Describe indicators suggesting neotectonic activity. 07

OR

6'. Give illustrative account of the following: 07

- (a) Intra cratonic Basin
- (b) Active Fault system.