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2010 – 2011  
B.Sc. (HONS.) (PART – III) EXAMINATIONS  
(GEOLOGY)  
IGNEOUS PETRO. & DYNAMICS OF EARTH  
(GL – 313)

Maximum Marks : 40

Duration : Three Hours

Note: Answer all questions.

1. Give a detailed account of mineralogy and Chemistry of the Mantle. [7]  
OR
- 1'. Give a detailed account of IUGS classification scheme of plutonic rocks.
2. Describe the crystallization of Albite – Anorthite system. Discuss its significance in igneous petrogenesis. [7]
3. Elaborate the textural and chemical characteristics of anorthosites. [7]  
OR
- 3'. Write detailed notes on the following:  
(i) Peridotite  
(ii) Granite
4. Give a detailed account of the geochemical evolution of the Earth. [6]  
OR
- 4'. Write detailed notes on:  
(i) Isostatic equilibrium  
(ii) Paleomagnetism and its applications in solving geological problems.
5. Describe the theory of plate tectonics with the help of suitable schematic diagrams and examples. [7]
6. Write detailed notes on the following: [6]  
(i) Continental Rifts  
(ii) Marginal Basins.
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