

2010 – 2011
M.Sc. (IV SEMESTER) EXAMINATION
(APPLIED GEOLOGY)
GEO-CHEMISTRY - II
(GLM – X001)

Maximum Marks: 35

Duration: Two Hours

Note: Answer all questions.

1. Give a detailed account of DUPAL anomaly ^{and} its significance. (09)
- OR
- 1'. Write explanatory notes on the following:
- (a) HIMU
- (b) Application of oxygen isotopes in igneous petrogenesis.
2. Discuss the significance of carbon isotopes in interpreting genesis of marine and non-marine carbonates. (09)
- OR
- 2'. Give an account of fractionation of sulfur isotopes and discuss its application in studies related to origin of hydrocarbon.
3. Write detailed notes on the following: (09)
- (a) Concept of free energy.
- (b) Activity
- (c) Principles of ionic substitution.
4. Give a detailed account of the mobility of major elements in surface environment. (08)

