

III year

S no = 15

(4230)

2009-2010
 B.Sc. (Hons.) (PART – III) EXAMINATION
 (GEOLOGY)
 IGNEOUS PETRO. & DYNAMICS OF EARTH
 (GL-313)

Maximum Marks: 40

Duration: Three Hours

Note: Answer all questions.

1. What is primary magma? Describe various processes which modify the composition of the primary magma. (06)
2. Describe crystallisation in Diopside- Anorthite system and discuss its significance in igneous petrogenesis. (07)
- OR
- 2' Write detailed notes on the following:-
 - (a) Basic principles of thermodynamics
 - (b) Chemical potential
3. Describe petrogenetic characteristics of basaltic rocks. (07)
4. Write an account of internal structure of the earth. (06)
- OR
- 4' Write detailed notes on the following:-
 - (a) Heat flow
 - (b) Orogenic and epeirogenic phases
5. Write an explanatory note on continental drift and mention evidences in support of it. (07)
6. Discuss the relationship between magmatism and orogeny. (07)
- OR
- 6' Write detailed notes on the following:-
 - (a) Continental margins.
 - (b) Natural geohazards.
