

Roll No.

Total Pages : 2

CMDQ/D-23

5201

**IGNEOUS & METAMORPHIC
PETROLOGY**

Paper–G–303

Time allowed : 3 Hours]

[Maximum Marks : 75

Note : Attempt **five** questions in all, selecting **one** question from each unit. Question No. **1** is compulsory. All questions carry equal marks.

Compulsory Questions

1. Write notes on the following:
 - (i) Primary magma.
 - (ii) Chemical composition of Andesite.
 - (iii) AFM diagram.
 - (iv) Charnockites.

UNIT–I

2. What are the factors affecting the evolution of magma?
3. (a) Fo-An-SiO₂ system.
(b) Ab-An-Di system.

UNIT–II

4. What is the basis for classifying igneous rocks into their types?

5. (a) Petrogenesis of granites.
(b) Variation diagrams.

UNIT–III

6. Discuss about the nature of metamorphic reactions during metamorphism.
7. (a) ACF diagram.
(b) Schreinemakers rule.

UNIT–IV

8. Describe about the Ocean floor metamorphism with associated rock types.
9. (a) Gondites.
(b) Khondalites.