

Roll No.

Total Pages : 2

CMDQ/M-24

5574

METOMORPHIC PETROLOGY

Paper–GT–603

Time Allowed : 3 Hours]

[Maximum Marks : 100

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

Compulsory Question

1. Write short notes on the following :

- (a) Regional Metamorphism.
- (b) Phase rule in Metamorphic petrology.
- (c) Highest grade of Metamorphism.
- (d) Mineral paragenesis.

UNIT-I

2. Discuss about the textural classification of metamorphic rocks.
3. (a) Dynamic metamorphism.
(b) Physical and chemical properties of Marble.

UNIT-II

4. Describe about the Graphical representation of various mineral assemblages in different P-T conditions.
5. (a) ACF diagram.
(b) AFM diagram.

UNIT-III

6. Discuss about the Petrogenetic grid for metamorphic assemblages in various grade of Metamorphism.
7. (a) Metamorphic isograds.
(b) Thermodynamics of Metamorphic reactions.

UNIT-IV

8. Describe about the Mineral assemblages in Amphibolite facies.
9. (a) Granulite facies.
(b) Eclogite facies.