

Roll No.

Total Pages : 2

CMDQ/M-24

5569

BASIC PETROLOGY

Paper–GT–403

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) Magma and its differentiation.
- (b) Chemical composition of Basalt.
- (c) Foliated metamorphic rocks.
- (d) Mineralogy of Sandstones.

UNIT–I

2. Write a detailed note on “Bowen reaction series”.

- 3. (a) Tabular intrusive bodies.
- (b) Lopolith and Phacoliths.

UNIT–II

4. Describe the different texture of Igneous rocks.

5. (a) Mode of occurrences of Igneous rocks.

(b) Chemical and Mineral composition of Granites

UNIT–III

6. Discuss about the different structure of Metamorphic rocks.

- 7. (a) Agents of Metamorphism.
- (b) Metamorphism and their types.

UNIT–IV

8. Describe about the classification of Sedimentary structures.

- 9. (a) Sedimentary fabrics.
- (b) Non-clastic sedimentary rocks.