

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.