

Roll No.

Total Pages : 2

CMDQ/M-24

5575

APPLIED GEOCHEMISTRY

Paper–GT–604

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 notes on the following :

- (a) Distribution of Elements in sedimentary rocks.
- (b) Equilibrium kinetics.
- (c) Radiogenic and stable isotopes.
- (d) Geochemical surveys.

UNIT-I

- 2. Discuss about the internal division and differentiation of Earth.
- 3. (a) Surface chemistry and its significance.
(b) Colloids in sedimentary conditions.

UNIT-II

- 4. What is the application of Thermodynamics in geology?
- 5. (a) Mineral equilibria and its significance.
(b) Chemical thermodynamics.

UNIT-III

- 6. Discuss about the Geochemical reactions related to sedimentation process.
- 7. (a) Isotopic systematics.
(b) Inorganic geochemistry.

UNIT-IV

- 8. Describe about the analytical techniques being used for rock composition.
- 9. (a) Mineral exploration and its techniques.
(b) Chemical parameters of Water.