## NKT/KS/17/5052

# Bachelor of Science (B.Sc.) Semester–I (C.B.S.) Examination GEOLOGY (Mineralogy) Compulsory Paper—2

Time : Three Hours] [Maximum Marks : 50

**N.B.**:— (1) All questions are compulsory and carry equal marks.

- (2) Draw neat sketches wherever necessary.
- 1. (A) Describe the following:
  - (i) Mineral composition of earth's crust
  - (ii) Polymorphism.

### OR

- (B) Describe the following:
  - (i) Forms of minerals
  - (ii) Cleavage in minerals.
- 2. (A) Give a brief account of Aluminous silicates with reference to chemical properties, physical properties and geological occurrence.

#### OR

- (B) Describe various silicate structures with suitable examples.
- 3. (A) Give an account of zeolites with reference to chemical properties, physical properties and geological occurrence.

#### OR

- (B) Give a brief account of Feldspar family with reference to chemical properties, physical properties and geological occurrence.
- 4. (A) Describe Amphibole family with reference to chemical properties, physical properties and geological occurrence.

## OR

- (B) Give an account of Mica family with reference to chemical properties, physical properties and geological occurrence.
- 5. Write on the following in not more than two sentences each (solve any ten ):
  - (A) Isomorphism
  - (B) Covalent bond
  - (C) Define a mineral
  - (D) Pyroelectricity
  - (E) Alteration in olivine
  - (F) Colour of olivine
  - (G) Hardness of quartz
  - (H) Chemical composition of wood opal.
  - (I) Form of chalcedony
  - (J) Name any two alkali pyroxenes
  - (K) Cleavage in Hypersthene
  - (L) Name any two monoclinic pyroxenes.

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