

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.