

AU-337

M.Sc. (Part—I) Semester—II (CBCS Scheme) Examination

GEOLOGY

(Igneous Petrology)

Paper—V

Time : Three Hours]

[Maximum Marks : 80

Note :—(1) All questions are compulsory and carry equal marks.

(2) Draw well labelled diagrams wherever necessary.

1. Give an account of various types textures and their genetic significance.

OR

Write in detail about the forms of igneous bodies.

2. Give an account of the following :
(a) Criteria for igneous classification
(b) CIPW norms.

OR

- (c) Niggli values
(d) Petrographic associations.

3. Describe in detail about the nature and evolution of magma.

OR

Describe in detail about the generation of magma.

4. Describe in brief :
(a) Phase equilibrium of single silicate system
(b) Magma genesis and crystallization.

OR

- (c) Phase equilibrium of binary silicate system
(d) Partial melting.

5. Describe the following :
(a) Petrogenesis of Komatiites
(b) Petrogenesis of Basalts.

OR

- (c) Petrogenesis of Granites
(d) Petrogenesis of Alkaline rocks.

