

AU-338

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

GEOLOGY

(Metamorphic Petrology)

Paper-VI

Time : Three Hours]

[Maximum Marks : 80

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

(2) Draw neat sketches wherever necessary.

1. Write in brief on the following :

- (a) Mineralogical phase rule
- (b) Agents of metamorphism.

OR

- (c) High pressure facies
- (d) Texture of metamorphic rocks.

2. Give an account on various types of metamorphic reactions.

OR

Explain in detail about the metamorphic zones and sub-facies.

3. Write in brief on the following :

- (a) Isoreaction grid
- (b) Construction of petrogenetic grid.

OR

- (c) Schreinemakers rule
- (d) Metamorphic differentiation.

4. Explain in detail about the anatexis and its importance in metamorphic petrology.

OR

Give an account on regional metamorphism in reference to plate tectonics.

5. Write in brief on the following :

- (a) Shock metamorphism
- (b) Pressure and temperature paths of metamorphism.

OR

- (c) Polymetamorphism
- (d) Ocean floor metamorphism.