

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 of closed system.
- (b) Kinds of metamorphism.

OR

- (c) Very high pressure facies.
- (d) Structure and texture of metamorphic rocks.

2. Give an account on various types of metamorphic reactions with suitable example.

OR

Explain in detail about the pressure and temperature conditions of metamorphism.

3. Explain in detail about the metamorphic differentiation.

OR

Give an account on Schreinemakers rule and construction of petrogenetic grid.

4. Write in brief on the following :

- (a) Anataxis.
- (b) Paired metamorphic belts.

OR

- (c) Origin of migmatites.
- (d) Metamorphism and plate tectonics.

5. Write in brief on the following :

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

OR

- (c) Types of ocean floor metamorphism.
- (d) Ultra high pressure conditions of metamorphism.

