

**55008**

Seat No. \_\_\_\_\_

**M. Sc. (Part - I) Examination**

April / May – 2003

**Geology**

Time : Hours]

[Total Marks :

- Instructions :** (1) Draw neat diagrams wherever **necessary**.  
(2) Your answer should carry the same number as per question paper.

1. Write a critical account of the chief radiometric methods of dating rocks. 20

**OR**

1. Describe :- (1) Evidences of continental drift, (2) Cratons, (3) Convection currents. 20  
2. Explain with illustrations:- (1) Heat flow from the earth, (2) Mechanism of plate tectonics, (3) Ice ages. 20

**OR**

2. Write an account of :- (1) Palaeomagnetism, (2) Discontinuities within the earth, (3) Mid – oceanic ridges. 20  
3. State the principal types of stresses. Bring out the basic difference between stress and strain operating in a body. Explain clearly how various types of stress operate on crustal rocks. 20

**OR**

3. Discuss :- (1) Principles of plastic deformation, (2) Tensional, compressional and shearing stresses, (3) Slaty cleavage. 20  
4. Review critically :- (1) Phases of geosyncline, (2) Primary, secondary and residual geosynclines, (3) Foliation. 20

**OR**

4. Write explanatory notes :- (1) Complex mountains, (2) Origin and evolution of salt domes, (3) Age relationship of plutons. 20  
5. Write an account of the following :- (1) Rhine graben, (2) Rift valleys of Africa. 20

**OR**

5. Describe :- (1) Mechanism of folding, (2) Himalayan thrusts, (3) Colorado plateau. 20