

Register Number :

Name of the Candidate :

1 7 4 1

M.Sc. DEGREE EXAMINATION, 2008

(GEO-INFORMATICS)

(FIRST YEAR)

(PAPER - I)

110. INTRODUCTION TO EARTH SCIENCES – I

(New Regulations)

May]

[Time : 3 Hours

Maximum : 100 Marks

Answer ALL questions.

Each answer should be in about 1,500 words.

All questions carry equal marks.

(5 × 20 = 100)

1. (a) How is the constant rate of decay of radio active isotopes used to determine the absolute age of earth.

(OR)

Turn over

- (b) Give a succinct account of continental drift and plate tectonics.
2. (a) Write an essay on Earth's heat budget and global climate changes.

(OR)

- (b) Describe three ways in which a stream might erode its channel. Add a note on drainage patterns.
3. (a) What are folds ? Describe different types of folds with neat sketches.

(OR)

- (b) Describe various symmetry elements of a crystal. Explain the Miller System of notation.
4. (a) Give an account of silicate structures.

(OR)

- (b) Write explanatory notes on :

- (i) Retardation.
 (ii) Birefringence.
 (iii) Pleochroism.
 (iv) Extinction angle.

5. (a) Describe the physical, chemical and optical characters of pyroxene group of minerals.

(OR)

- (b) Describe the physical, chemical and optical characters of mica group of minerals.