Register Number :

Name of the Candidate :

1 7 4 6

M.Sc. DEGREE EXAMINATION, 2008

(GEO-INFORMATICS)

(FIRST YEAR)

(PAPER - VI)

**160. STATISTICS AND COMPUTER
PROGRAMMING**

(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) What are the different types of frequency
distribution and explain frequency curves in
geological studies.

(OR)

Turn over

(b) (i) What do you understand by central tendency ? Explain with the help of an geological example.

(ii) What purpose does a measure of central tendency serve ?

2. (a) Calculate the Mean, Variance and Co-efficient of variation from the following data :

Class interval	10-20	20-30	30-40	40-50	50-60
Frequency	8	12	20	6	4

(OR)

(b) Explain the following :

(i) Skewness and Kurtosis.

(ii) Quartile deviation and standard deviation.

3. (a) Find the corrleation co-efficient for the following using 44 and 26 respectively as the origin of A and B :

A	43	44	46	40	44	42
B	29	31	19	18	19	27

45	42	38	40	42	57
27	29	41	30	26	10

(OR)

(b) Discuss briefly the different methods of sampling and illustrate their merits and demerits.

4. (a) (i) Describe the characteristics of object oriented language.

(ii) Discuss the benefits of object oriented programming.

(OR)

(b) Explain the various types of constructor and destructors.

5. (a) Define abstract classes. Write a programme to implement queue as an abstract type.

(OR)

(b) What is the inheritance ? Explain the various levels of inheritance.