Total No. of Pages: 2 **2024**

Register Number:

Name of the Candidate:

M.Sc. DEGREE EXAMINATION, 2010

(GEO INFORMATICS)

(PAPER-IV)

540. STATISTICAL METHODS AND COMPUTER PROGRAMMING

May) (Time: 3 Hours

Maximum: 100 Marks

Answer ALL questions **(5×20=100*)***

Each answer should be in about 1500 words

All questions carry equal marks

1. a) Explain the need for construction of frequency distribution giving an illustration. Also mention its advantages in the analysis in the analysis of statistical data.

(OR)

b) Compute Karl Pearson's co-efficient of skewness for the following data:

x	2-4	4-6	6-8	8-10	10-12	12-14	14-15	16-18
f	5	9	37	22	8	7	5	2

2. a) Explain the importance of sampling methods in geoinformatic studies. Also explain the method of simple random sampling with a suitable example.

(OR)

b) The following data relate to sales in a time of trade depression of a certain article in wide demand. Do the data suggest that the sales are significantly affected by the depression?

District where sales are	District not hit by depression	District hit by depression	Total
Satisfactory	250	80	330
Not satisfactory	140	30	170
Total	390	110	500

3. a) Describe in detail the principle of objects oriented programming (OOP)?

(OR)

b) Explain the following:

i) Operators and looping.

ii) Functions and procedures.

4. a) What are constructors? Explain the different types of constructors with examples.

(OR)

b) Explain the various data types in C++.

5. a) Write an explanatory note on multilevel inheritance with an example.

(OR)

b) Describe the various classes available for the file operations.

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