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Register Number:

6024

Name of the Candidate:

M.Sc. DEGREE EXAMINATION, 2010

(GEOINFORMATICS)

(FIRST YEAR)

(PAPER-IV)

540. STATISTICAL METHODS AND COMPUTER PROGRAMMING

Dec]   Maximum : 100 Marks   [Time : 3 Hours

Answer any FIVE questions   ***(5×20=100)***
Each answer should be in about 1500 words
All questions carry equal marks

1. a) Discuss in detail the various considerations one has to bear in mind while preparing a frequency distribution.

(OR)

   b) Compute Mean and Standard deviation for the following data. Also interpret you results.

Rainfall (in cms) in 5 locations

Region A	3.4	3.8	3.9	4.2	5.1
Region B	2.6	2.9	3.4	3.5	4.1

2. a) Compute Karl Pearson's coefficient of correlation for the following data.

X	4	28	20	12	32	24	16	8
Y	3	27	19	11	31	23	15	7

(OR)

   b) Explain in detail various aspects involved in a sample survey.

3. a) Explain the following:
      i)   Statistics and parameter
      ii) Critical region and region of acceptance
      iii) Null and Alternative Hypothesis

(OR)

   b) To test the effectiveness of innoculation against cholera the following data were obtained.

	Attacked	Not Attacked	Total
Inoculated	30	160	190
Non Inoculated	140	460	600
Total	170	620	790

The figure represents the number of persons. Does inoculation prevent attack from cholera? (Given $\chi^2_{0.05}$=3.84 for 1.d.f)

4. a) Explain the principle of object oriented programming.

(OR)

   b) What is meant by a friend function? Explain the merits and demerits of using friend function.

5. a) How do we invoke a construction function? Mention the special properties of the construction functions.

(OR)

   b) Write an explanatory note on multilevel inheritance with an example.