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Reg. No.....
Name.....

K 3114

SECOND SEMESTER M.A. DEGREE EXAMINATION, JULY/AUGUST 2003

Branch : Sociology
SOCIAL STATISTICS

Time : Three Hours

Maximum : 75 Marks

Answer any five questions.
Each question carries 15 marks.
For description questions answer should not exceed 1,000 words.

1. "Statistics is not a body of substantive knowledge but a body of methods for obtaining knowledge". Wallis and Roberts Elaborate.
2. Explain the general rules for constructing diagrams and discuss its limitations.
3. Calculate the median and mode (by grouping method) from the following data :

Central Size : 15 25 35 45 55 65 75 85
 Frequencies : 05 09 13 21 20 15 08 03

4. Define dispersion and explain the objectives of measuring dispersion.
5. Blood serum cholesterol levels of 10 persons are as under :
 240, 260, 290, 245, 255, 288, 272, 263, 277, 251.
 Calculate standard deviation with the help of assumed mean.

6. Calculate the rank co-efficient of correlation of the following data :—

X : 80 78 75 75 68 67 60 59
 Y : 12 13 14 14 14 16 15 17

7. In an antimalarial campaign in a certain area, quinine was administered to 812 persons out of a total population of 3248. The number of fever cases is shown below :

Treatment	Fever	No. Fever	Total
Quinine	20	792	812
No. Quinine	220	2216	2436
Total	240	3008	3248

Discuss the usefulness of quinine in checking Malaria (5% level of X² for one degree of freedom = 3.84).

8. Critically examine the usefulness of computer in statistical analysis.