



Reg. No. :

Name :

Second Semester M.A. Degree Examination, July 2013
Branch : Sociology
(2008 Admission Onwards)
SO 223 : SOCIAL STATISTICS AND COMPUTER APPLICATIONS

Time : 3 Hours

Max. Marks : 75

PART - A

Answer **all** questions. Choose correct answer from the brackets. **Each** question carries 1½ marks.

1. Statistics was defined as "the political science of the several countries by
a) Prof. Baran J.F. Von Bielfeld b) Prof. William Petty
c) Prof. Cottfried Achenwall d) Prof. Henry
2. Age would be an example of a/an
a) ratio measure b) interval measure
c) ordinal measure d) nominal measure
3. When data are observed over a period of time the type of classification is known as
a) Geographical classification b) Chronological classification
c) Qualitative classification d) Quantitative classification
4. _____ is a more satisfactory measure of the central tendency, when extreme values are present in a set of observations.
a) Arithmetic mean b) Median
c) Mode d) Harmonic Mean
5. The standard deviation concept was introduced by
a) Emory S. Bogardus b) Arthus Jensen
c) Renis Likert d) Karl Pearson



6. The value of the coefficient is unduly affected by the
- a) multiple items
 - b) rank item
 - c) extreme item
 - d) medium item
7. Statistics is said to be a branch of
- a) Applied Mathematics
 - b) Mathematics
 - c) Demography
 - d) Algebra
8. The variable t-distribution ranges from
- a) minus infinity
 - b) plus infinity
 - c) minus infinity to plus infinity
 - d) plus infinity to minus infinity
9. Median is the most appropriate average in dealing with
- a) Quantitative data
 - b) Qualitative data
 - c) Equal classes
 - d) Ranked data
10. Mode can be located graphically by using
- a) Band curve
 - b) Frequency Polygon
 - c) Frequency curve
 - d) Histogram
- (10×1.5=15 Marks)**

PART – B

Answer **any six** questions in **not** more than **500** words. **Each** question carries **2** marks.

11. Discuss the nature and types of statistics.
12. Explain the significance of tabulation of data.
13. Analyse the merits and demerits of Median.
14. List out the objectives of Measures of Dispersion.
15. Describe the merits and limitations of Mean deviation.



- 16. Examine the significance of the study of correlation.
- 17. Elucidate the uses of Regression Analysis.
- 18. Explain the condition under which chi-square test can be used. (6x2=12 Marks)

PART – C

Answer **any two** questions in **not more than 1500** words. **Each** question carries **24** marks.

- 19. Explain the role of statistics in social research.
- 20. Discuss the various ways by which a frequency distribution can be presented graphically.
- 21. Find Karl Pearson's coefficient of correlation between the values of X and Y given below and calculate the probable error :

X : 78 89 96 69 59 79 68 61

Y : 125 137 156 112 107 136 123 108

- 22. The following data relate to advertising expenditure (in lakhs of rupees).

Advertising expenditure : 10 12 15 23 20

Sales : 14 17 23 25 21

Estimate :

- i) the sales corresponding to advertising expenditure of Rs. 30 lakhs and
- ii) the advertising expenditure for a sales target of Rs. 35 crores.

(2x24=48 Marks)