



Reg. No. : .....

Name : .....

**Second Semester M.A. Degree Examination, July 2012**  
**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. \_\_\_\_\_ is a branch of Science which deals with the collection; analysis and interpretation of numerical data.

(Statistics, Regression, Correlation, Classification)

2. Formula of co-efficient of Quartile deviation is \_\_\_\_\_

$$\left( \frac{Q_3 - Q_1}{Q_3 + Q_1}, \frac{Q_3 + Q_1}{Q_3 - Q_1}, \frac{Q_3 - Q_1}{Q_3 - Q_1}, \frac{Q_3 + Q_1}{Q_3 + Q_1} \right)$$

3. \_\_\_\_\_ scale is a system of assigning number of symbols to events, inorder to label them.

(Ordinal, Nominal, Ratio, Interval)

4. The \_\_\_\_\_ diagram can be used for both categorical data and qualitative data.

(Pie-diagram, Histogram, Bar diagram, Frequency Polygon)



5. The formula of  $2 \times 2$  contingency table of Chi-square test is \_\_\_\_\_

$$\left( X^2 = \frac{N(ad - bc)^2}{(a + b)(c + d)(a + c)(b + d)} \right.$$

$$X^2 = \frac{N(ab - ac)^2}{(a + b)(c + d)(a + c)(b + d)}$$

$$X^2 = \frac{N(ac - ad)^2}{(a + d)(d + c)(b + d)(d + c)}$$

$$\left. X^2 = \frac{N(bd - ad)^2}{(a + b)(b + d)(a + c)(c + d)} \right)$$

6. \_\_\_\_\_ test is used to determine if the scores of two groups, differ on a single variable.

(t-test, f-test, z-test, chi-square test)

7. In the step deviation method 'd' = \_\_\_\_\_

$$\left( \frac{M - A}{i}, \frac{M + A}{i}, \frac{X - A}{i}, \frac{X - \bar{X}}{i} \right)$$

8. The \_\_\_\_\_ is the first items is its frequency itself, the second item is the sum of the first and the second item of the frequency and so on.

(cumulative frequency, frequency polygon, frequency distribution, frequency curve)

9. The concept of standard deviation was introduced by \_\_\_\_\_

(Karl Pearson, Spearman, Fisher, Francis Galton)

10. The difference between the frequency of the model class and the frequency of the post model class is \_\_\_\_\_

$(\Delta_1, \Delta_2, \Delta_3, \Delta_4)$ .

(10×1.5=15 Marks)



PART – B

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

- 11. Explain the nature and types of statistics.
- 12. Elucidate Ordinal Scale.
- 13. What is measures of central tendency ?
- 14. What is standard deviation and examine the merits and demerits ?
- 15. What are the uses of SPSS in social research ?
- 16. What is meant by Chi-square test ?
- 17. Describe the use of Internet in social science research.
- 18. What do you mean by tabulation data ?

(6×2=12 Marks)

PART – C

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

- 19. What is statistics ? Explain the uses and limitations of statistics in social research.
- 20. The following table gives the distribution of income of 100 families in a village. Calculate the standard deviation from the following data.

Income (Rs.)	No. of families
0 – 1000	18
1000 – 2000	26
2000 – 3000	30
3000 – 4000	12
4000 – 5000	10
5000 – 6000	4

- 21. Examine the role of SPSS in data analysis.
- 22. Describe how search engines help in social science research.

(2×24=48 Marks)

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