



Reg. No. :

Name :

Second Semester M.A. Sociology Degree Examination, September 2010
(2008 Admission Onwards)
SO-2.2.3. : 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. The science of statistics is said to have originated from two sources _____ and _____
[a] Govt. records and Mathematics
b) Mathematics and Population
c) Govt. records and Graphs
d) Mathematics and census]
2. _____ Scale is a system of assigning number of symbols to events in order to label them.
[a] Ordinal
b) Nominal
c) Ratio
d) Graphic]
3. The difference between the largest and the smallest observation is called _____
[a] Frequency
b) Range
c) Class interval
d) Tabulation]
4. _____ can be used to evaluate whether there is an association between the rows and columns is a contingency table.
[a] Chi-square test
b) t-test
c) Median test
d) Mode test]



5. _____ is a method of data analysis determining the specific function relating X to Y.

- [a] Regression analysis b) Chi-square analysis
c) Co-relation analysis d) Percentage]

6. _____ is the point on the scale around which the cases balance.

- [a] Mean b) Median
c) Mode d) Percentage]

7. The concept standard deviation was introduced by Karl Pearson in _____

- [a] 1893 b) 1983
c) 1839 d) 1938]

8. The formula of 2×2 contingency table chi-square test is _____

[a] $\chi^2 = \frac{N(ad - bc)^2}{(a + b)(c + d)(a + c)(b + d)}$

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

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

9. The formula to Spearman's Correlation Co-efficient is _____

[a] $r = \frac{1 - 6\sum D^2}{N^3 - N}$

b) $r = \frac{\sum xy}{\sqrt{\sum x^2 \sum y^2}}$

c) $r = \frac{1 - \sum xy}{\sqrt{N^3 - N}}$

d) $r = \frac{1 - 6\sum D^2}{\sqrt{\sum N^3 - N}}$

10. The _____ diagram can be used for both categorical data and quantitative data.

- [a] Pi diagram b) Histogram
c) Bar diagram d) Flow chart]

(10×1.5=15 Marks)



PART – B

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

- 11. Describe the role of Statistics in research.
- 12. Explain Ratio Scales.
- 13. Describe the meaning of classification.
- 14. What are the properties of correlation coefficient ?
- 15. What are the parts of a table ?
- 16. Importance of diagrams and graphs in Social research.
- 17. What are the uses of SPSS in Social research ?
- 18. What is meant by chi-square test ?

(6×2=12 Marks)

PART – C

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

- 19. Explain the use of computer in Statistical analysis.
- 20. Compute Coefficient of Quartile deviation from the following data :

Class	Frequency
10 – 20	12
20 – 30	19
30 – 40	5
40 – 50	10
50 – 60	9
60 – 70	6
70 – 80	6

- 21. Describe the various types of diagrams ?
- 22. Calculate the Mean, Median and Mode from the following data :

Weekly Wages (Rs.)	60 – 69	70 – 79	80 – 89	90 – 99	100 – 109	110 – 119
No. of workers	10	10	20	30	20	10

(2×24=48 Marks)

