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Reg. No. : 560 16 115 015

Name : George

Third Semester M.A. Degree Examination, January 2018
Branch : Sociology
SO 233 : SOCIAL STATISTICS
(2013 Admission Onwards)

Time : 3 Hours

Max. Marks : 75

PART - A

Answer **all** questions. Define or explain the following in **not** more than **50** words **each**. Each question carries **2** marks. **(10×2=20 Marks)**

1. Inferential Statistics.
2. Class Interval.
3. Bar Diagram.
4. Arithmetic Mean.
5. Frequency Polygon.
6. Cross table.
7. Qualitative Data.
8. Statistical Analysis.
9. Null Hypothesis.
10. Bivariate analysis.

P.T.O.

PART - B

Answer **any five** of the following questions in **not more than 250 words each**.

Each question carries **5** marks.

(5×5=25 Marks)

11. Bring out the importance of statistics in social science research.

12. Briefly explain tests of significance.

13. Explain different types of graphic presentation of data.

14. Describe the use of dispersion in social research.

15. Discuss the role of SPSS in sociological research.

16. Define median and calculate the median of the following items :

Size of items	Less than 100	100-200	200-300	300-400	400 and above
Frequency	40	89	148	64	39

17. Calculate Co-efficient of Range from the following data :

Wages	50-60	60-70	70-80	80-90	90-100	100-110	110-120
No. of workers	50	45	45	40	35	30	30

18. Explain the uses of Regression Analysis.

PART - C

Answer **any two** of the following questions in **not more than 1200 words each**.

Each question carries **15** marks.

(2×15=30 Marks)

19. Explain the meaning, uses and types of scales.

20. Explain different measures of Central tendencies and discuss its merits and demerits.



21. Define mean deviation and calculate the mean deviation of the following series :

S.No.	1	2	3	4	5	6	7	8	9
Marks	68	49	32	21	54	38	59	66	41

22. Explain the meaning of Inter Quartile Deviation and Semi Inter Quartile Deviation. Find the Quartile Deviation and Co-efficient from the following Data :

Weekly wages of seven Labourers	500	700	800	600	650	400	900
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Reg. No.

Name :

Third Semester M.A. Degree Examination, January 2017
Branch : Sociology
(2013 Admission)
SO 233 – SOCIAL STATISTICS

Time : 3 Hours

Max. Marks : 75

PART – A

Answer **all** questions. Define or explain in **not** more than **50** words **each**. **Each** question carries **2** marks. **(10×2=20 Marks)**

1. Explain the meaning of Research.
2. What is standard deviation ?
3. Describe the meaning of dispersion.
4. Define the significance of pie-chart in social statistics.
5. Compute the mean deviation for the following data :

Class Interval	0 – 9	10 – 19	20 – 29	30 – 39	40 – 49	50 – 59	60 – 69	70 – 79
Frequency	3	7	13	27	30	12	10	8

6. Write a note on chi-square test.
7. Define correlation.
8. Explain mode in social statistics.
9. Explain SPSS.
10. Explain scatter diagram.

P.T.O.



PART – B

Answer **any five** of the following questions in **not** more than **250** words each. **Each** question carries **5** marks. **(5×5=25 Marks)**

11. Describe the important dimensions of descriptive research design.
12. Write briefly about different types of scales in social research.
13. What is correlation ? What are its uses ?
14. Explain the uses of diagrammatic and graphic presentation of data.
15. Compute quartile deviation from the following data.

X	10 – 20	20 – 30	30 – 40	40 – 60	60 – 70	70 – 80
f	12	19	5	10	9	6

16. Define regression analysis.
17. Elaborate the sources of hypothesis with suitable examples.
18. What is Quartile deviation ?

PART – C

Answer **any two** of the following questions in **not** more than **1200** words each. **Each** question carries **15** marks. **(2×15=30 Marks)**

19. Discuss the uses of social statistics in social research.
20. Calculate the mean deviation from the data given below :

Daily Expenditure in Rs.	0 – 30	30 – 60	60 – 90	90 – 120	120 – 150
No. Families	10	15	25	32	24

21. Define arithmetic mean, median and mode and describe their relative merits and demerits.
22. Describe the uses of internet in social science research.



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Reg. No. :

Name :

Third Semester M.A. Degree Examination, January 2016

Branch : Sociology

(2013 Admission Onwards)

SO 233 – SOCIAL STATISTICS

Time : 3 Hours

Max. Marks : 75

PART – A

Answer **all** questions. Define or Explain the following in **not** more than **50** words **each**. **Each** question carries **2** marks.

1. T-test.
2. Standard error.
3. Nominal Scale.
4. Rating Scale.
5. Linear Regression.
6. Multivariate Analysis.
7. Chi-Square test.
8. Ordinal variables.
9. Levels of measurement.
10. SPSS. **(10×2=20 Marks)**

PART – B

Answer **any five** of the following questions in **not** more than **250** words **each**. **Each** question carries **5** marks.

11. Describe the role of statistics in social research.
12. Distinguish between Interval Scale and Ratio Scale.

P.T.O.



13. Calculate the standard deviation of the following distribution.

Age : 10 – 15, 15 – 20, 20 – 25, 25 – 30, 30 – 35, 35 – 40

No. of

Persons : 150, 100, 110, 90, 45, 40

14. Define central tendency and discuss three common measures of central tendency. Calculate the mean income of the 5 families in a city.

Income

Per month Rs. 10,000, 25,000, 32,000, 18,000, 12,500

15. Explain the meaning, types and methods of studying correlation.

16. Write a brief note on Test of significance.

17. What do you mean by the term 'histogram' ?

18. Bring out the limitations of the application of statistics in Social science research.

(5×5=25 Marks)

PART – C

Answer **any two** of the following questions in **not more than 1200 words each**. Each question carries **15** marks.

19. Discuss the role of correlation and regression analysis in statistics.

From the following data obtain two regression equations.

X 6 2 10 4 8

Y 9 11 5 8 7

20. Define Rank correlation and discuss its importance in data analysis in Social Science Research.

Find the Rank correlation coefficient from the marks of 10 students in Maths (X) and Science (Y).

X 100, 67, 78, 58, 75, 61, 40, 38, 85, 56

Y 85, 63, 76, 48, 74, 45, 28, 65, 68, 67

21. Bring out the importance of computer and internet in Social Science Research.

22. Define statistics and explain descriptive and inferential statistics.

(2×15=30 Marks)