



M 22397

Reg. No. :

Name :

Third Semester M.S.W. Degree (Reg./Sup.) Examination, December 2012
Paper – XVI : QUANTITATIVE METHODS IN SOCIAL RESEARCH

Time : 3 Hours

Max. Marks : 80

PART – I

Answer **any six** questions. **Each** question carries **3** marks. Answer to **a** question is limited to **100** words.

Write short notes :

1. Tabulation of data
2. Cumulative scaling
3. Percentile ranges
4. Scatter diagram
5. Phi coefficient
6. Sampling errors
7. SPSS
8. Spearman's rank correlation
9. ANOVA.

(6×3=18)

PART – II

Answer **any five** questions. **Each** question carries **6** marks. Answer to **a** question is limited to **200** words.

10. Define statistics. Explain its functions and limitations.
11. Discuss the testing of hypothesis.

P.T.O.



12. Define skewness. Mention the characteristics of positively and negatively skewed distribution.
13. Explain Measures of Dispersion.
14. Explain Bayes' Theorem.
15. Differentiate between Mean Deviation and Standard Deviation.
16. Calculate the median from the following data :

Age	Number of persons	Age	Number of persons
55 – 60	7	35 – 40	30
50 – 55	13	30 – 35	33
45 – 50	15	25 – 30	28
40 – 45	20	20 – 25	14

17. A sample survey of public opinion regarding the election of a political party candidate gave the following results. Do you think the attitude towards election is guided by the economic conditions of the voters ? Relevant value of $\chi^2 = 3.84$.

Attitude towards election	Rich	Poor	Total
Favourable	508	1,559	2,067
Unfavourable	905	1,114	2,019
Total	1,413	2,673	4,086

(5×6=30)



PART – III

Answer **any two** questions. **Each** question carries **equal** marks. Answer to **a** question is limited to **900** words.

18. Explain the importance of statistics in social work research.
19. Describe the different methods of scale construction, pointing out the merits and demerits of each.
20. Ten competitors in a beauty contest are ranked by three judges in the following order :

1 st Judge	1	5	4	8	9	6	10	7	3	2
2 nd Judge	4	8	7	6	5	9	10	3	2	1
3 rd Judge	6	7	8	1	5	10	9	2	3	4

Use the rank correlation coefficient to discuss which pair of judges have the nearest approach to beauty. (16×2=32)
