Reg. No. : ....

Name : ....

M 14053

Third Semester M.S.W. Degree Examination, December 2007
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 on :

1. Classification

2. Data storage

3. Dispersion

4. Exhaustive events

5. Degrees of freedom

6. Frequency distribution

7. Yules Q co-efficient

8. SPSS

9. Variance.

(6×3=18)

PART – II

Answer **any five** questions. **All** questions carry **equal** marks. Answer to a question should not exceed **200** words.

10. Describe the different measures of dispersion, mentioning their merits and demerits.

11. Write a note on measurements and scaling.

12. Discuss the uses and limitations of social statistics in social work research.

13. For the following distribution, find the mode :

Class	0 – 6	6 – 12	12 – 18	18 – 24	24 – 30	30 – 36
Frequency	12	24	36	38	33	6

P.T.O.

14. Outline the advantages of presentation of data in the form of tables.

15. For the following data find the quartile deviation.

Number of fruits per basket :

36   43   30   37   38   35   29   38   35   32   35   36

16. The probabilities of 2 students A and B solving a problem are $\frac{1}{2}$ and $\frac{3}{4}$ respectively. If both of them independently try, what is the probability that the problem is solved ?

17. Write down the merits and demerits of mean and median.

(5×6=30)

PART – III

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

18. What is the need for graphic presentation of data ? Explain the construction of histogram, frequency polygon and frequency curve.

19. Calculate Spearman's co-efficient of correlation between X and Y by using the following data :

X	60	110	65	40	70	20
Y	90	100	80	30	70	20

20. The following data gives the results of preparatory and final examinations of a set of students :

		Final Examination	
		Pass	Fail
Preparatory Examination	Pass	605	135
	Fail	195	65

Use Chi-square test and test whether there is association between results of preparatory and final examinations.

(Chi-square table value = 3.84)

(2×16=32)