



M 24303

Reg. No. :

Name :

Third Semester M.S.W. Degree (Regular/Supple.)
Examination, December 2013
Paper – XVI : STATISTICS

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.

1. Degree of freedom
2. Mode
3. Cartograms
4. Standard deviation
5. Scatter diagram
6. Yule's coefficient
7. Types of errors in hypothesis testing
8. Tabulation of data
9. Frequency polygon.

(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 function and limitations.
11. Calculate the standard deviation of the following data :

Person :	1	2	3	4	5	6	7
Income :	30	40	42	44	46	48	58

P.T.O.



12. Define skewness. Explain the characteristics of positively and negatively skewed distribution.

13. Calculate arithmetic mean and median of the following data :

Marks :	0 – 5	5 – 10	10 – 15	15 – 20	20 – 25	25 – 30	30 – 35	35 – 40
No. of students :	4	6	10	15	30	15	12	8

14. What is ANOVA ? Explain its usefulness in research.

15. Explain measures of dispersion.

16. Explain the importance of hypothesis testing in research. What are the statistical techniques used for it ?

17. Explain the merits and demerits of measures of central tendency. (5×6=30)

PART – III

Answer **any two** questions. **Each** question carries **16** marks. Answer to a question is limited to **900** words.

18. Explain the different graphic and diagrammatic presentation of data.

19. A study was conducted with 20 respondents regarding HIV/AIDS awareness. Find whether there is any association between education and awareness on AIDS using following data :

Awareness	Education		
	Primary education	Higher education	
Aware	45	95	140
Not aware	40	20	60
Total	85	115	200

For degree of freedom 1, the value of Chi-square at 5% level is 3.84.

20. Calculate rank correlation coefficient :

X : 12 18 32 18 25 24 25 40 38 22

Y : 16 15 28 16 24 22 28 36 34 19

(2×16=32)