

2015**MSW**

**Second Semester Examination
STATISTICS FOR SOCIAL WORKER**

PAPER—MSW-208*Full Marks : 40**Time : 2 Hours**The figures in the margin indicate full marks.**Candidates are required to give their answers in their own words as far as practicable.**Illustrate the answers wherever necessary.***Answer any four questions.**

1. (a) What are the different measures of central tendency? 3
- (b) Calculate the mean of the following data : 7

X :	20-30	30-40	40-50	50-60	60-70	70-80	80-90
f :	3	51	122	141	130	51	2
2. (a) What is a questionnaire? Point out the features of a good questionnaire? 7
- (b) What is an Ogive? 3
3. (a) What is Range? 3
- (b) Find the Variance and Standard deviation of the following : 7

X :	2	4	6	8	10	12	14	16
f :	4	4	5	15	8	5	4	5

(Turn Over)

4. (a) What is Correlation? 3
- (b) Find out the rank correlation coefficient (X & Y are the ranks & individual 1 to 10) : 7
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|--------------|---|---|---|----|---|---|---|---|---|----|
| Individual : | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| X : | 5 | 4 | 2 | 10 | 3 | 1 | 6 | 9 | 7 | 8 |
| Y : | 6 | 2 | 1 | 7 | 4 | 3 | 9 | 5 | 8 | 10 |
5. (a) What are the different methods of data collection? Point out the advantages & disadvantages among the various methods. 3+3
- (b) A factory employs 100 workers of whom 60 work in the first shift & 40 work in the second shift. The average of all the 100 workers is Rs. 38. If the average of 60 workers of the first shift is Rs. 40, find the average age of the remaining 40 workers of the second shift. 4
6. (a) Define the term class limits, class boundaries and class width. 6
- (b) Differentiate between dependent & independent variables. 4
7. Write short notes on any *two* of the following : 5+5
- (a) Geometric mean.
- (b) Histogram.
- (c) Median.
- (d) Pilot Study.