

Instructions:

- Figures to the right indicate Full Marks.
- Do not write anything on the question paper.
- Simple calculator is allowed. Do not use scientific calculator.

Q-1	Write Importance and scope of statistics.	14																										
Q-2	Explain various types of one dimension diagrams. OR Define types of classification of data.	14 14																										
Q-3	A) What do you mean by singular sense? Feature of singular sense. B) Calculate A.M from following data. <table border="1" data-bbox="199 1102 1225 1193"> <tbody> <tr> <td>X:</td> <td>10-20</td> <td>20-30</td> <td>30-40</td> <td>40-50</td> <td>50-60</td> </tr> <tr> <td>F:</td> <td>4</td> <td>7</td> <td>16</td> <td>20</td> <td>15</td> </tr> </tbody> </table> <p style="text-align: center;">OR</p> A) Explain general rules for constructing diagrams. B) Calculate the co-efficient of correlation between X and Y series from the following data. <table border="1" data-bbox="199 1402 1182 1494"> <tbody> <tr> <td>X</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> <tr> <td>Y</td> <td>3</td> <td>4</td> <td>6</td> <td>7</td> <td>10</td> </tr> </tbody> </table>	X:	10-20	20-30	30-40	40-50	50-60	F:	4	7	16	20	15	X	1	2	3	4	5	Y	3	4	6	7	10	7 7 7 7		
X:	10-20	20-30	30-40	40-50	50-60																							
F:	4	7	16	20	15																							
X	1	2	3	4	5																							
Y	3	4	6	7	10																							
Q-4	Compute Coefficient of M.D. from mean and median. <table border="1" data-bbox="199 1576 1343 1709"> <tbody> <tr> <td>Class intervals</td> <td>0-10</td> <td>10-20</td> <td>20-30</td> <td>30-40</td> <td>40-50</td> </tr> <tr> <td>Frequency</td> <td>4</td> <td>6</td> <td>8</td> <td>10</td> <td>5</td> </tr> </tbody> </table> <p style="text-align: center;">OR</p> From the following data find out the standard deviation. <table border="1" data-bbox="199 1832 1343 1924"> <tbody> <tr> <td>X:</td> <td>10-20</td> <td>20-30</td> <td>30-40</td> <td>40-50</td> <td>50-60</td> <td>60-70</td> </tr> <tr> <td>F:</td> <td>10</td> <td>12</td> <td>15</td> <td>20</td> <td>14</td> <td>24</td> </tr> </tbody> </table>	Class intervals	0-10	10-20	20-30	30-40	40-50	Frequency	4	6	8	10	5	X:	10-20	20-30	30-40	40-50	50-60	60-70	F:	10	12	15	20	14	24	14 14
Class intervals	0-10	10-20	20-30	30-40	40-50																							
Frequency	4	6	8	10	5																							
X:	10-20	20-30	30-40	40-50	50-60	60-70																						
F:	10	12	15	20	14	24																						

E1587-2

Q-5	Calculate the regression equations using regression coefficient of X on Y and Y on X from following data. X: 1 2 3 4 5 Y: 2 5 3 8 7	14
------------	--	-----------

