

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 86**  
**(For candidates admitted from the academic year 2023 – 2024)**

**M.A DEGREE EXAMINATION, NOVEMBER 2023**  
**BRANCH III - ECONOMICS**  
**FIRST SEMESTER**

**COURSE : CORE**  
**PAPER : RESEARCH METHODS AND ANALYSIS – I (PRACTICAL)**  
**SUBJECT CODE: 23EC/PC/RM14**  
**TIME : 1 ½ HOURS** **MAX. MARKS: 40**

Q. No.	SECTION A (2 X 20 = 40) ANSWER ANY TWO OUT OF FOUR DATASETS	CO	KL												
<b>DATASET 1</b>															
a	<table border="1"> <tr> <td>X</td> <td>5</td> <td>7</td> <td>9</td> <td>10</td> <td>13</td> </tr> <tr> <td>Y</td> <td>7</td> <td>8</td> <td>11</td> <td>12</td> <td>15</td> </tr> </table> <p>Enter the data in excel and draw a bar diagram</p>	X	5	7	9	10	13	Y	7	8	11	12	15	4	4
X	5	7	9	10	13										
Y	7	8	11	12	15										
b	<table border="1"> <tr> <td>Y</td> <td>4</td> <td>8</td> <td>12</td> <td>16</td> <td>19</td> </tr> <tr> <td>X</td> <td>15</td> <td>12</td> <td>9</td> <td>6</td> <td>3</td> </tr> </table> <p>Find the correlation coefficient using excel</p>	Y	4	8	12	16	19	X	15	12	9	6	3	5	5
Y	4	8	12	16	19										
X	15	12	9	6	3										
<b>DATASET 2</b>															
a	<table border="1"> <tr> <td>X</td> <td>10</td> <td>20</td> <td>25</td> <td>30</td> <td>35</td> </tr> <tr> <td>f</td> <td>4</td> <td>7</td> <td>9</td> <td>4</td> <td>5</td> </tr> </table> <p>Find the arithmetic mean</p>	X	10	20	25	30	35	f	4	7	9	4	5	4	4
X	10	20	25	30	35										
f	4	7	9	4	5										
b	<table border="1"> <tr> <td>Y</td> <td>23</td> <td>27</td> <td>32</td> <td>50</td> <td>66</td> </tr> </table> <p>Display the data using pie diagram</p>	Y	23	27	32	50	66	5	5						
Y	23	27	32	50	66										
<b>DATASET 3</b>															
a	<table border="1"> <tr> <td>Y</td> <td>2</td> <td>4</td> <td>6</td> <td>9</td> <td>11</td> </tr> <tr> <td>X</td> <td>4</td> <td>7</td> <td>9</td> <td>11</td> <td>14</td> </tr> </table> <p>Find the regression coefficient of Y on X</p>	Y	2	4	6	9	11	X	4	7	9	11	14	4	4
Y	2	4	6	9	11										
X	4	7	9	11	14										
b	<p>Find the value of F and interpret your result</p> <table border="1"> <tr> <td>X1</td> <td>2</td> <td>4</td> <td>8</td> <td>12</td> <td>15</td> </tr> <tr> <td>X2</td> <td>4</td> <td>3</td> <td>9</td> <td>11</td> <td>14</td> </tr> </table>	X1	2	4	8	12	15	X2	4	3	9	11	14	5	5
X1	2	4	8	12	15										
X2	4	3	9	11	14										
<b>DATASET 4</b>															
a	X : 23 43 51 63 23 45 find the standard deviation	4	4												
b	Y : 4 7 9 12 14 15 Find the variance	5	5												

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