



PAPER ID-311687

Roll No:

MBA
(SEM I) THEORY EXAMINATION 2025-26
BUSINESS STATISTICS AND ANALYTICS

TIME: 3 HRS

M.MARKS: 70

Note: Attempt all Sections. In case of any missing data, choose suitably.

SECTION A

1. Attempt all questions in brief.

02 x 7 = 14

Q no.	Question
a.	Distinguish between Primary and Secondary data.
b.	Define the term Range.
c.	What is Linear Co-relation?
d.	What do you mean by regression Co-efficient?
e.	Define standard Errors and Explain it's Importance.
f.	Explain Hypothesis testing of one Proportion.
g.	Give the application of chi-square test.

SECTION B

2. Attempt any three of the following:

07 x 3 = 21

Q no.	Question																						
a.	Explain kurtosis with the help of diagram.																						
b.	Differentiate between skewness and depression.																						
c.	Calculate mean and median from the following data.																						
<table border="1"> <thead> <tr> <th>X</th> <td>10</td> <td>20</td> <td>30</td> <td>40</td> <td>50</td> <td>60</td> <td>70</td> </tr> </thead> <tbody> <tr> <th>F</th> <td>4</td> <td>7</td> <td>15</td> <td>8</td> <td>7</td> <td>2</td> <td>7</td> </tr> </tbody> </table>		X	10	20	30	40	50	60	70	F	4	7	15	8	7	2	7						
X	10	20	30	40	50	60	70																
F	4	7	15	8	7	2	7																
d.	Find the Co-efficient of Co-relation from the following data																						
<table border="1"> <thead> <tr> <th>X</th> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> </tr> </thead> <tbody> <tr> <th>Y</th> <td>62</td> <td>56</td> <td>48</td> <td>41</td> <td>36</td> <td>28</td> <td>21</td> <td>16</td> <td>12</td> <td>8</td> </tr> </tbody> </table>		X	1	2	3	4	5	6	7	8	9	10	Y	62	56	48	41	36	28	21	16	12	8
X	1	2	3	4	5	6	7	8	9	10													
Y	62	56	48	41	36	28	21	16	12	8													
e.	A card is drawn from a well shuffled pack of playing cards. What is the probability that it is either a spade or a king?																						

SECTION C

3. Attempt any one part of the following:

07 x 1 = 07

Q no.	Question																								
a.	Find out fisher ideal index number from following data																								
<table border="1"> <thead> <tr> <th rowspan="2">Commodities</th> <th colspan="2">Base year</th> <th colspan="2">Current Year</th> </tr> <tr> <th>Price</th> <th>Quantity</th> <th>Price</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>10</td> <td>50</td> <td>12</td> <td>60</td> </tr> <tr> <td>B</td> <td>8</td> <td>30</td> <td>9</td> <td>32</td> </tr> <tr> <td>C</td> <td>6</td> <td>35</td> <td>7</td> <td>40</td> </tr> </tbody> </table>		Commodities	Base year		Current Year		Price	Quantity	Price	Quantity	A	10	50	12	60	B	8	30	9	32	C	6	35	7	40
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b.	Index number is an economic barometers. Comment on this statement and explain the utility of Index number.
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7. Attempt any *one* part of the following.

07 x 1 = 07

Q no.	Question
a.	Discuss the concept of Co-relation and regression. Also explain the different type of Co-relation.
b.	Discuss the binomial distribution along with the assumptions and characteristics.