Roll No. | | | | | | | | | | | | |

Total No. of Questions: 09 **Total No. of Pages: 02**

BBA/BRDM/Bachelor in Service Industry Management (SIM) (Sem. 3)

BUSINESS STATISTICS

Subject Code: BBA-304

Paper ID: C1167

Time: 3 Hrs. **Max. Marks: 60**

INSTRUCTIONS TO CANDIDATES:

1. **Section A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **Attempt any ONE question from each UNIT in Section B | (each question carries TEN marks)**

SECTION A

1. Answer briefly

a) Mode

b) Geometric mean

c) Standard deviation

d) Negative correlation

e) Standard error of estimate

f) Time series

g) Seasonal variation

h) Experiment

i) Probability

j) Conditional probability

SECTION B

UNIT-I

2. Write a note on classification and presentation of frequency distribution.

3. For a certain frequency table which has been partly reproduced here, the mean was found to be 1.46. Find the missing frequencies.

No. of accidents	0	1	2	3	4	5	Total
Frequency (No. of	46	?	?	25	10	5	200

days)							

UNIT-2

4. From the following data calculate Spearman's Rank Correlation coefficient.

X	48	33	40	9	16	16	65	24	16	57
Y	13	13	24	6	15	4	20	9	6	19

5. From the data given below, find the regression equation of marks in statistics on marks in economics.

Marks (economics)	25	28	35	32	31	36	29	38	34	32
Marks (statics)	43	46	49	41	36	32	31	30	33	39

UNIT-3

6. What are the various methods of measuring seasonal variations? Explain.

7. Details of price and consumption of 5 commodities for 1995 and 1997 arc given. Calculate an index number for 1997 prices with 1995 as base using an appropriate formula

Commodity	Price per unit 1995 (Rs.)	Price per unit 1997 (Rs.)	Consumption value 1995 (Rs.)
A	40	48	800
B	25	27	400
C	95	105	760
D	110	120	1100
E	80	100	480

UNIT-4

8. Explain addition theorem of probability using examples.

9. Among I000 applicants for admission to M .A. Economics course in a university, 600 were economics graduates and 400 were non-economics graduates. 30% of economics graduates and 5% of non-economics graduate applicants got admission. If an applicant selected at random is found to have been given admission, what is the probability that he /she is an economics graduate?