

Roll No.

Total No. of Questions : 07]

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Paper ID [BB304]

(Please fill this Paper ID in OMR Sheet)

BBA (Sem. - 3rd)

BUSINESS STATISTICS (BB - 304)

Time : 03 Hours

Maximum Marks : 60

Instruction to Candidates:

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Four** questions from Section - B.

Section - A

Q1)

(10 x 2 = 20)

- a) What are the advantages of graphic presentation of data?
- b) What are the general rules in construction of a statistical table?
- c) What are the characteristics of a good measure of central tendency?
- d) Explain the conditions under which the use of harmonic mean is more suitable.
- e) Define coefficient of variation.
- f) What are the merits and demerits of Spearman's rank correlation method?
- g) What do you mean by regression analysis?
- h) Define Index Number.
- i) What are the uses of time series analysis?
- j) What is classical approach to probability?

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Section - B

(4 x 10 = 40)

Q2) Find out Arithmetic mean from the following data:

Wages (Rs.)	f
103.5 - 107.5	7
107.5 - 111.5	18
111.5 - 115.5	27
115.5 - 119.5	49
119.5 - 123.5	52
123.5 - 127.5	23
127.5 - 131.5	16
131.5 - 135.5	5
135.5 - 139.5	3

Q3) Calculate the value of Mean Deviation from the mean using the following data

X : 32 27 38 25 20 32 34 28 40 29

Q4) Find out Karl Pearson's coefficient of correlation between wages and supply of labour in the labour market.

Wages (Rs.):	20	23	27	31	35	38	40	42
Labour Supply (in Numbers) :	18	20	24	30	32	34	36	38

Q5) From the following data, calculate index number for year 2007 in relation to prices in 2005.

Commodity :	A	B	C	D	E
Prices in 2005 (Rs.) :	100	118	20	200	105
Prices in 2007 (Rs.) :	105	120	25	200	110

Q6) Calculate 3-year moving Average from the following data:

Year :	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Production :	47	48	51	55	57	61	65	70	76	84

Q7) Define Bionomial Distribution. What are the properties of Bionomial Distribution?

