Roll No.....

Total No. of Questions : 13] [Total No. of Pages : 03

Paper ID [B0102]

(Please fill this Paper ID in OMR Sheet)

BBA (BB - 102) (S05) (O) (Sem. - 1st)

BASIC BUSINESS STATISTICS

Time : 03 Hours Maximum Marks : 75

Instruction to Candidates:

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

Section - A

Q1) *(15 × 2 = 30)*

a) What is Central tendency?

b) What do you mean by Arithmetic Mean?

c) Define Quartile deviation.

d) What is stratified Random sampling?

e) What is Quota Sampling?

f) What is Addition theorem of probability?

g) Two coins are tossed simultaneously. Find out the probability that both will get heads.

h) Explain Normal Distribution.

i) What is Negative Correlation?

j) What is Regression co-efficient?

k) Write a note on Paasche Index.

l) What is analysis of time series?

m) What is the cost of living index?

n) Discuss least square method under Time Series Analysis.

o) Differentiate between cyclical and seasonal fluctuation.

Section - B

(9 × 5 = 45)

Q2) Explain the utility of statistics as a managerial tool.

Q3) Discuss meaning, merits & demerits of Mode.

Q4) Define Dispersion. What are the qualities of a good measure of dispersion.

Q5) Write a short note on methods of Random Sampling.

Q6) State & explain Multiplication theorem of probability.

Q7) A fair coin is tossed 3 times. Find out the probability that there will be :

(a) Three heads.

(b) Two heads.

(c) One head.

(d) No head.

Q8) In a certain district, an average one house in 1000 has a fire during a year. If there are 2000 houses in that district, what is the probability that exactly 5 houses will have a fire during the year.

Q9) Find out the co-efficient of correlation between X and Y using Karl Pearson's Method.

X :	5	10	15	20	25	30	35
Y :	2	4	7	9	8	10	9

Q10) What is Index Numbers? What are the various problems faced while constructing index numbers.

Q11) Construct index numbers of price from the following data by using :

(a) Laspeyre's Method.

(b) Paasche's Method.

(c) Fisher's Method.

Commodity	1995		1996	
	Price	Quantity	Price	Quantity
A	2	8	4	6
B	5	10	6	5
C	4	14	5	10
D	2	19	2	15

Q12) Write a short note on Linear Trend.

Q13) Fit a straight line trend by the method of least squares and predict the sales for 2001.

Year :	1994	1995	1996	1997	1998	1999
Sales : (in '000 Rs.)	15	17	20	23	21	24

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