

B. Com-II
Business Statistics

Paper-IV

Time:- 3 Hours

M.Marks-80

Note :- Attempt Five questions in all selecting at least One but not more than Two questions from each unit. All questions carry equal marks.

UNIT-I

1. Explain the Functions, Importance and limitations of statistics.
2. What is presentation of data in statistics? What are the methods of data presentation in statistics?
3. Calculate Mean Deviation from mean and median. Also find there coefficient from the following data:

Class	0-5	5-10	10-15	15-20	20-25	25-30
Frequency	7	10	16	32	21	18

4. From the following data, compute the coefficient of correlation between X and Y:

	X Series	X Series
Number of Items	15	15
Arithmetic Mean	25	18
Sum of Square Deviations	136	138

The summation of the products of the deviations of X and X series from their arithmetic means = 122.

UNIT-II

5. What is a index number? What are the problems in constructing index numbers?
6. Construct index numbers of prices of items in the year 2012 from the following data by:
 - a) Laspeyres method
 - b) Paasche's method
 - c) Fisher's method

Items	Price (2004)	Quantity(2004)	Price(2012)	Quantity (2012)
A	10	10	5	25
B	35	4	35	10
C	30	3	15	15
D	10	25	20	20
E	40	3	40	5

7. Fit a straight line trend on the following data:

Year	1996	1997	1998	1999	2000	2001	2002	2003	2004
Y	4	7	7	8	9	11	13	14	17

UNIT-III

8. Write note of following:
- Mutually exclusive events.
 - Equally Likely events
 - Simple and compound events
 - Dependent events
9. A box contains three coins: two regular coins and one fake two-headed coin $P(H)=1$
- You pick a coin at random and toss it. What is the probability that it lands heads up?
 - You pick a coin at random and toss it, and get heads. What is the probability that it is the two-headed coin?
10. (a) State and prove multiplication theorem of probability
(b) Discuss properties of binomial distribution