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(6th Semester)

COMMERCE

Paper : BC-603

(Business Statistics)

Full Marks : 70

Pass Marks : 45%

Time : 3 hours

(PART : B—DESCRIPTIVE)

(Marks : 45)

*The figures in the margin indicate full marks
for the questions*

1. (a) Explain the importance of statistics in trade and commerce. 9

Or

- (b) What is secondary data? Discuss the advantages and disadvantages of secondary data. 2+7=9

2. (a) Consider the following distribution :

x :	0-10	10-20	20-30	30-40	40-50
f :	12	18	20	25	23

Calculate mean and mode. 5+4=9

Or

- (b) Calculate Karl Pearson's coefficient of correlation from the following data : 9

X :	48	35	17	23	47
Y :	45	20	40	25	45

3. (a) What do you mean by consumer price index number? Discuss the uses and limitations of consumer price index number. 3+3+3=9

Or

- (b) Calculate Fisher's ideal index from the following data and prove that it satisfies both the time reversal and factor reversal tests : 9

Commodity	2010		2011	
	Price (₹)	Expenditure (₹)	Price (₹)	Expenditure (₹)
A	8	80	10	120
B	10	120	12	96
C	5	40	5	50
D	4	56	3	60
E	20	100	25	150

(3)

4. (a) Fit a straight line trend by the method of least squares to the following data : 9

Year : 2001 2002 2003 2004 2005 2006 2007 2008

Earning

(₹ lakh) : 38 40 65 72 69 60 87 95

Or

- (b) What is time series? Discuss the various components of time series. 2+7=9

5. (a) Give a distinction between census method and sample method. 9

Or

- (b) Find the probability of drawing a queen, a king and an ace in that order from a pack of cards in three consecutive draws, the cards drawn not being replaced. 9
