

2017

(6th Semester)

COMMERCE

Paper No. : BC-603

(Business Statistics)

(PART : A—OBJECTIVE)

(Marks : 25)

The figures in the margin indicate full marks for the questions

Answer **all** questions

1. Indicate whether the following statements are *True* or *False* by putting a Tick (✓) mark in the brackets provided : 1×5=5

(a) All facts numerically expressed are statistics.

True () *False* ()

(b) A sample is less expensive than a census.

True () *False* ()

(2)

(c) Mean deviation is least when deviations are taken from median.

True () False ()

(d) Bowley's index is the geometric mean of Laspeyres and Paasche Index.

True () False ()

(e) Secular trend refers to the long-term movement.

True () False ()

2. Put a Tick (✓) mark against the correct answer in the brackets provided : 1×5=5

(a) Diagram and graphs are tools of

(i) collection of data ()

(ii) analysis ()

(iii) presentation ()

(iv) summarization ()

- (b) The coefficient of correlation
- (i) has no limits ()
 - (ii) can be less than -1 ()
 - (iii) can be more than 1 ()
 - (iv) varies between ± 1 ()
- (c) If with a rise of 10% in prices the wages are increased by 20% , the real wage increase is by
- (i) 10% ()
 - (ii) more than 10% ()
 - (iii) less than 10% ()
 - (iv) 20% ()
- (d) In the least square linear trend equation $y = a + bx$, if b is positive. It indicates
- (i) declining trend ()
 - (ii) rising trend ()
 - (iii) no trend at all ()
 - (iv) All of the above ()
- (e) If two events A and B are independent, the conditional probability that they will both occur is given by
- (i) $P(A) + P(B)$ ()
 - (ii) $P(A) \times P(B)$ ()
 - (iii) $P(A) - P(B)$ ()
 - (iv) $P(A) \times P(B) + P(AB)$ ()

(4)

3. Fill in the blanks : 1×5=5

(a) Standard Deviation is a measure
of

(b) Given mean 25, mode 24, the median would
be.....

(c) When we shift the trend origin, the value
of b is

(d) Marshall-Edgeworth index number satisfies
..... test.

(e) If a card is drawn from a pack of cards, the
probability of getting either a king or queen

is

(5)

4. Answer/Write short notes on the following exceeding 3 sentences each :

(a) Pilot Survey of Pretest

(6)

(b) Distinguish between Primary data and Secondary data.

(7)

(c) Coefficient of correlation

(8)

(d) Index number

(9)

(e) Distinguish between Regression and Correlation.
