Bc/Bs-603

2021

(6th Semester)

COMMERCE

Paper : BC-603

(Business Statistics)

(PART : A—OBJECTIVE)

(Marks: 25)

The figures in the margin indicate full marks for the questions

Answer **all** questions

- **1.** Choose and write the correct answer from the options provided : 1×10=10
 - (a) The scope of survey depends on
 - (i) the objectives
 - (ii) resources
 - (iii) availability of time
 - *(iv)* All of the above
 - (b) The graphic method of studying dispersion is called
 - (i) cartogram
 - (ii) pictogram
 - (iii) Lorenz curve
 - *(iv)* scatter diagram

/360

(2)

- (c) The coefficient of correlation
 - (i) varies between 0 and 1
 - (*ii*) varies between -1 and +1
 - (iii) varies between and
 - (iv) varies between 0 and 100
- (d) Fisher's ideal index is
 - (i) AM of Laspeyres' and Paasche's index
 - (ii) GM of Laspeyres' and Paasche's index
 - (iii) average of base and current years' quantities
 - (iv) median of Laspeyres' and Paasche's index
- *(e)* The most important factors causing seasonal variations are
 - *(i)* growth in population
 - (ii) technological improvements
 - (iii) weather and social customs
 - (iv) change in fashions
- *(f)* The classical school of thought on probability assumes that all possible outcomes of an experiment are
 - *(i)* equally likely
 - (ii) independent
 - (iii) mutually exclusive
 - *(iv)* mutually exclusive and equally likely

Bc/Bs-603/360

- (g) If two events A and B are dependent, the
 - conditional probability of A given B is (i) P(B | A)
 - (ii) P(A) / P(B)
 - (iii) P (A B) / P (A)
 - (iv) P(A B) / P(B)
 - *(h)* Sum of squared deviations of a set of values is minimum when deviations are taken from the
 - *(i)* arithmetic mean
 - (ii) geometric mean
 - (iii) harmonic mean
 - (iv) median
 - *(i)* If one of the regression coefficients is greater than unity, then the other must be
 - (i) equal to unity
 - (ii) less than unity
 - (iii) greater than unity
 - *(iv)* zero
 - (j) Diagrams and graphs are tools of
 - (i) collection of data
 - (ii) presentation of data
 - (iii) summarization of data
 - (iv) analysis of data

Bc/Bs-603/360

(3)

(4)

- 2. State whether the following statements are True or False : 1×5=5
 - (a) The value of mode and median can be determined graphically.
 - (b) Quartile deviation is more suitable in case of open end distribution.
 - (c) Correlation always signifies a cause and effect relationship between the variables.
 - (d) Judgement sampling is a type of probability sampling method.
 - *(e)* If coefficient of correlation is zero, then two regression lines will be identical.
- **3.** Write short notes on/Answer the following (any *five*) : $2 \times 5 = 10$
 - (a) Lorenz curve
 - (b) Chain index number
 - (c) Mutually exclusive events
 - (d) Business cycle
 - (e) Two properties of coefficient of correlation
 - (f) What is Statistics?
 - (g) Graphic method

Bc/Bs-603/360

12-21—PDF