REV-01
BBA/45/15

2025/05

SET A

BACHELOR OF BUSINESS ADMINISTRATION

FOURTH SEMESTER

QUANTITATIVE TECHNIQUES

BBA – 403

[USE OMR FOR OBJECTIVE PART]

Duration: 1:30 hrs. **Full Marks: 35**

(Objective)

Time: 15 min. **Marks: 10**

Choose the correct answer from the following: *1×10=10*

1. Which of the following quantitative technique used in sampling method?
   a. Mathematical QT b. Statistical QT
   c. Programming QT d. None of the above

2. In _____, data are classified according to the class intervals
   a. Geographical classification b. Chronological classification
   c. Quantitative classification d. Qualitative classification

3. The _____ can be determined graphically
   a. Arithmetic Mean b. Geometric Mean
   c. Harmonic Mean d. Median

4. The revenues of an industry in last ten years, is an example of
   a. Secular trend b. Seasonal variation
   c. Cyclic variation d. Random variation

5. Which of the following regression equation is used to predict y when x is given
   a. x on y b. y on x
   c. Either (a) or (b) d. Neither (a) nor (b)

6. Two independent variables are
   a. Uncorrelated b. Correlated
   c. Strongly correlated d. Weakly correlated

7. The value of the probability of an event cannot be
   a. Positive b. Negative
   c. Zero d. None of the above

8. If P(A) = 0, the event A is

a. Impossible
b. Sure
c. Uncertain
d. None

9. If three fair coins are tossed, the number of favourable outcomes of obtaining no head is

a. 3
b. 2
c. 1
d. 0

10. The number of possible outcomes of throwing of two fair dice is

a. 36
b. 12
c. 6
d. None of the above

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Descriptive

Time: 1 hr. 15 mins. **Marks: 25**

[Answer question no.1 & any two (2) from the rest]

1. Discuss the importance of Quantitative Techniques in managerial decision making process. 5

2. Calculate mean, standard deviation and the coefficient of variation (CV) of the following distribution. 10

Age in years :	0 –10	10 –20	20 –30	30 – 40	40 –50	50 -60
No. of persons:	2	5	7	9	6	3

3. Discuss the various components of time series. 10

4. Predict y when x = 8 of the following data 10

X: 4	5	7	9	10
Y: 8	10	12	15	17

5. Explain the classical definition of probability. 5+5=10
Three fair coins are tossed, find the probability of obtaining at least two heads

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