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(20524)

Roll No.

BBA-II Sem.

18080

B.B.A. Examination, May-2024

QUANTITATIVE TECHNIQUES FOR

BUSINESS

(BBA-201)

(New Course)

Time : Three Hours / [Maximum Marks : 75]

Note : Attempt **all** the sections as per instructions.

Section-A

Note : Attempt **all** the **five** questions. $5 \times 3 = 15$

1. Illustrate with suitable examples the use of statistical methods in commerce and business. 3
2. Write a short note on various parts of an ideal table. 3
3. Calculate median, if arithmetic mean is 49.58 and mode is 67. 3

P.T.O.

4. Mean of 100 items is 58 and their standard deviation is 4. Find the sum of squares of all items. 3

5. Find the range and its coefficient in the given series: 3

110, 117, 129, 300, 357, 100, 500, 630, 750

Section-B

Note : Attempt any **two** questions. $2 \times 7\frac{1}{2} = 15$

6. What is trend? What are the various methods of fitting a straight line to a time series? 7.5

7. If the arithmetic mean of the following frequency distribution is 39.25. Find the missing term. 7.5

Daily wages	25	30	35	50	60	75
No. of labour	10	?	13	8	5	4

8. Find the probability of a total of 10 when three (3) pair dice are tossed once? 7.5

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Section-C

Note : Attempt any **three** questions.

15×3=45

9. The following table relates to the tourist arrivals during 2011 to 2017 in India.15
Fit a trend line by the method of least square and estimates the number of tourists that would arrives in the year 2018. 15

Years	Tourist Arrivals (in millions)
2011	18
2012	20
2013	23
2014	25
2015	24
2016	32
2017	37

10. Explain the concept of 'Regression'. How far is it different from correlation? Why are there two lines of regression? 15

11. Calculate coefficient of variations from the following data : 15

Age	5-7	7-9	9-11	11-13	13-15	15-17
No. of Students	40	38	50	54	38	40

12. Differentiate between : 15

- (a) Questionnaire and schedule
- (b) Primary and secondary data
- (c) Table and Tabulation

13. Find the rank correlation coefficient from the following data : 15

x	10	12	15	17	19	20
y	40	41	48	60	54	45