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(20525)
BBA.-II Sem.

(Printed Pages 4)
Roll No.

18080

B.B.A. Examination, May-2025

QUANTITATIVE TECHNIQUES FOR

BUSINESS

(BBA-201)

(New Course)

Time : Three Hours]

[Maximum Marks : 75

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

Section-A

(Very Short Answer Questions)

Note : Attempt **all** the **five** questions. Each question carries **3** marks. Very short answer is required not exceeding **75** words. $5 \times 3 = 15$

1. Explain the mathematical properties of Arithmetic Mean.

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2. What is meant by Dispersion?
3. What is correlation.
4. Define Ogive Curve.
5. Difference between census and sample.

Section-B

(Short Answer Questions)

Note : Attempt any **two** questions out of the following **three** questions. Each question carries **7.5** marks.

$$2 \times 7.5 = 15$$

6. Calculate Mean Deviation and its coefficient (from mean) from the following data:- $\frac{1}{2}$
 Marks : 5 15 25 35 45
 No. of students : 5 6 15 20 4
7. Explain the concept of Regression Analysis along with its properties.
8. Define Interpolation & Extrapolation. How are they used in business decision making?

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Section-C

(Detailed Answer Questions)

Note : Attempt any **three** questions out of the following **five** questions. Each question carries **15** marks. $3 \times 15 = 45$

9. Discuss the importance of diagrammatic presentation. Discuss merits & demerits of it.
10. Find out missing frequencies in the following incomplete distribution:-
 C.I. : 0-10 10-20 20-30 30-40 40-50
 f : 3 ? 20 12 ?
 The values of Median & Mode are 27 & 26 respectively.
11. Calculate Karl Pearson's coefficient of correlation from the following data.
 x : 17 18 19 19 20 20 21 21 22 23
 y : 12 16 14 11 15 19 22 16 15 20

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P.T.O.

12. Construct price index number from the data given below by using Fisher's ideal formula:-

Commodity	Base Year		Current Year	
	Price per unit	Expenditure	Price per unit	Expenditure
I	5	40	4	76
II	10	50	8	88
III	2	16	1	24
IV	8	32	10	60

13. What is Probability Distribution? Discuss the different types of probability distribution in detail, including their characteristics, examples, & applications in real world scenarios.