



# ADITYA DEGREE COLLEGES

\* ANDHRA PRADESH \*

II SEMESTER - I MID EXAMINATIONS  
I - BBA STATISTICAL METHODS

Time : 2 Hours  
Max. Marks : 60M

Date: 03-03-2025

## SECTION-A

I. Answer any FIVE Questions.

5 X 4 = 20 M

1. Mean deviation.
2. 25, 26, 38, 12, 19, 16, find Median?
3. What is Probability?
4. Rules of Probability?
5. Find co-efficient of Range?

X	0-10	10-20	20-30	30-40	40-50
f	12	8	21	r	10

N = 200

6. Types of Correlation?
7. Regression Analysis?
8. Find out Missing Frequency? Mean 39.5

X	0-10	10-20	20-30	30-40	40-50
f	9	11	-	15	5

## SECTION - B

II. Answer ALL Questions.

4 X 10 = 40 M

9. a. What do you mean by statistics? Explain Advantages and Limitations of Statistics?

(OR)

- b. Explain measures of central tendency and dispersion?

10. a. From the following data find out 1) Mean 2) Median.

Class	0-10	10-20	20-30	30-40	40-50
frequency	8	12	25	5	10

(OR)

b. From the following data find out Standard deviation?

Class	10-20	20-30	30-40	40-50	50-60	60-70
frequency	9	11	25	15	12	8

11. a. Find  $\bar{X}_2$  ,When  $\bar{X}_1 = 20$ ,  $\bar{X}_{12} = 50$ ,  
 $N_1 = 20$ ,  $N_2 = 30$

(OR)

b. From the following data find out Karl- Pearson co-efficient of correlation and probable error.

X	10	20	28	17	36	20
y	9	34	27	55	12	26

12. a. From the following data find  
i) x on y                      ii) y on x

Item	x	y
Mean	30	40
SD	7	8
Correlation	0.96	

(OR)

b. From the following data find  
i) x on y                      ii) y on x

X	10	20	30	40	50	70
y	12	23	44	55	30	10