



# ADITYA DEGREE COLLEGES

◆ ANDHRA PRADESH ◆

PREFINAL- II SEMESTER EXAMINATIONS

Date: 27.03.2020

BCA - SMAP

Max. Marks : 75 M

Time : 3 Hours

## SECTION - A

Answer any FIVE Questions:

5X5= 25M

1. Define the term statistics? Explain the functions of statistics?
2. Write the Characteristics of good Questionary?
3. What are the characteristics of Ideal measure of central Tendency?
4. Briefly write about Mean-Median-Mode?
5. State the Properties of Dispersion?
6. Define Regression? Write the properties of Regression Coefficients?
7. Explain the correlation coefficients? Write its Properties?
8. What are the types of Index numbers?

## SECTION - B

Answer the following Questions:

5X10= 50M

9. a) Define the term Statistics? Explain the importance and limitations?

OR

b) Define the Primary data? Discuss various methods of collections of primary data?

10. a) Calculate the arithmetic mean for the following data.

CI	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Frequency	3	8	7	10	15	6	11

OR

b) What are the various Measures of Central Tendency? What are its merits and demerits?

11. a) Define measures of Dispersion? Explain the various measures of Dispersion?

OR

b) Calculate the standard deviation for the following data?

CI	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Frequency	9	2	8	3	6	10	12	15

12. a) Calculation Karl Pearson correlation of coefficient to the following data?

X	10	15	12	17	13	6	24	14	22	20
Y	30	42	45	46	33	34	40	35	39	38

OR

b) Compute two regression equations by least square method from the following data?

X	2	6	4	3	2	2	8	4
Y	7	2	1	1	2	3	2	6

13. a) Define Index number? Describe the problems involved in the construction of an Index numbers?

OR

- b) Calculate Fisher Ideal Index number.

Product	Base year(2018)		Current year (2019)	
	Price	Q uantity	Price	Q uantity
A	6	50	10	56
B	2	100	2	120
C	4	60	6	60
D	10	30	12	24
E	8	40	12	36