

23BEC402
UG PROGRAM (4 YEARS HONOURS) WITH SINGLE MAJOR
AT THE END OF FOURTH SEMESTER
ECONOMICS - STATISTICAL METHODS FOR ECONOMICS
(B.A HONOURS-MAJOR)
(w.e.f. Admitted Batch 2023-24)

Maximum: 70 marks

Time: 3 Hours

SECTION - A

Answer any Five questions.

5x4=20

1. Questionnaire

2. Histogram

3. What is Arithmetic Mean? What are its merits and demerits?

4. Definition and Use of Regression

5. Definition and components of Time series

6. Census and Sampling methods

7. Calculate the median for the following data.

X: 4, 2, 7, 4, 9, 6, 13

Median = 6

8. Quartile Deviation

SECTION - B

Answer ALL questions.

5x10=50

9. (a) Explain the Importance and Limitations of Statistics.

(Or)

(b) Explain the methods of collecting primary data.

10. (a) What are the merits and demerits of the diagrammatic presentation of the data?

(Or)

(b) What is a Pie Diagram? Draw a pie diagram for the following data?

Items:	Food	Clothing	Education	Recreation	Miscellaneous
Expenditure (in Rs):	5100	3000	4000	1900	4000

11. (a) Find the median for the following data.

C.I	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Frequency:	5	15	20	40	30	22	10	8

(Or)

(b) Find the Standard deviation for the following data.

C.I	10-20	20-30	30-40	40-50	50-60	60-70
Frequency:	4	12	10	12	4	8

Median = 38.75

12. (a) Calculate the Karl Pearson's Correlation Coefficient for the following data.

X :	51	63	73	46	50	60	47	36	60
Y :	49	72	74	44	58	66	50	30	35

(Or)

$$r = 0.752$$

(b) Explain the relation and differences between Correlation and Regression.

13. (a) Calculate the trend values for the following given data by using Least square Method.

Year	2001	2002	2003	2004	2005	2006	2007
Production	80	90	92	83	94	99	92

(Or)

(b) Discuss the Advantages and Limitations of Index Numbers.