

FINAL YEAR B.Com. DEGREE EXAMINATION, MARCH/APRIL 2002**Part III—Commerce****Paper II—BUSINESS STATISTICS**

(New Scheme)

: Three Hours

Maximum : 100 Marks

*Answers may be written either in English or in Malayalam.***Part A***Answer any ten questions.**Each question carries 2 marks.*

What is primary data ?

Give the different ways in which a frequency distribution can be graphically presented.

Define Quartiles.

Give the empirical relation between mean, median and mode.

What is coefficient of variation ?

What is kurtosis ?

Give various measures of correlation.

Name the *four* components of a Time series.

Write the formula to find chain relative for any quarter.

What is an index number ?

Write the formula for Fisher's ideal index number.

What is a systematic sample ?

(10 × 2 = 20 marks)

Part B*Answer any ten questions.**Each question carries 5 marks.*

Discuss the limitations of Statistics.

Explain the advantages of diagrammatic representation.

Give the requisites of a good average.

Explain the significance of measuring variation.

"Correlation analysis does not tell us anything about cause and effect relationships"—Discuss

What are the uses of index number ?

Explain the necessary adjustments to be made in the raw data before beginning the Time series analysis.

Find the mean :

300—500	500—700	700—900	900—1100	1100—1300	1300—1500
25	55	30	20	14	6

Turn over

21. For the following data, find the standard deviation :—
77, 73, 75, 70, 72, 76, 75, 72, 74, 76
22. In a moderately skewed frequency distribution the mean is 15 and median is coefficient of variation is 30, find the coefficient of skewness.
23. x : 52 53 42 60 45 41 37 38 25 27
 y : 65 68 43 38 77 48 35 30 25 50
- Calculate Spearman's coefficient of correlation.
24. If $4x - 5y + 33 = 0$ and $20x - 9y = 107$ are the two regression equations, find of r . (10 × 5 =

Part C

Answer any two questions.
Each question carries 15 marks.

25. Describe the different types of bar diagram.
26.

0—2	2—4	4—6	6—8	8—10	10—12
5	16	13	7	6	4
- Find the coefficient of variation.
27. x : 146 152 158 164 170 176 182
 y : 75 78 77 79 82 85 86
- Calculate the regression coefficient of y on x . (2 × 15 =

