

Fourth Semester Internal Examination, February 2026
Major Course in Commerce
Business Statistics
COM4CJ205

20/02/26.
10. to 11.

Time: 1 Hr

Max Marks: 35

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|--------|--------------|-----------|--|-------------|
| Name: | Marks Scored | Section A | | Total Marks |
| Class: | | Section B | | |
| | | Section C | | |

Section A

(Each question carries 3 marks, Max marks for section – 7)

1. What do you mean by scatter diagram?
2. What do you mean by Regression line?
3. Find 'r', if $b_{yx} = -0.3$ and $b_{xy} = -0.7$

Section B

(Each question carries 6 marks, Max marks for section – 18)

4. What are the types of correlation?
5. What are the differences between correlation and regression?
6. Calculate Karl Pearson's correlation Coefficient between x and y from the following data:
 $n = 10, \Sigma x = 35, \Sigma y = 28, \Sigma x^2 = 203, \Sigma y^2 = 140, \Sigma xy = 168$
7. From the following data of values of x and y, find the regression equation of y on x.
X: 2 3 4 5 6
Y: 3 5 4 8 9

Section C

(Answer any one question, Each question carries 10 marks)

8. Explain about the methods of Regression analysis.
9. Find out the Spearman's rank correlation coefficient.
A 60 34 40 50 45 41 22 43 42 66 64 46
B 75 32 34 40 45 33 12 30 36 72 41 57