# Worksheet: Correlation

Tamil Nadu State Board · Class 11 · Economics · 3 questions · 12 marks

Name: _____ Date: _____ Score: _____ / 12

**Q1.** Identify the type of correlation (positive, negative, or zero) for each pair: (a) Price and quantity demanded. (b) Height and income. (c) Study hours and marks. (d) Temperature and sales of woollen clothes. *[2 marks]*

**Q2.** Calculate Spearman's Rank Correlation for the following data on students' ranks in Maths and Economics: Student: A, B, C, D, E, F. Maths rank: 1, 2, 3, 4, 5, 6. Economics rank: 2, 4, 1, 5, 3, 6. *[4 marks]*

**Q3.** Calculate Karl Pearson's r using assumed mean method for: X: 10, 20, 30, 40, 50; Y: 25, 35, 55, 65, 70. Use assumed mean A = 30 for X and B = 55 for Y. *[6 marks]*