



INDIAN SCHOOL AL WADI AL KABIR

Class: XI	Department: Commerce
	Topic: Correlation

1. Correlation measures -----, not ----- . (causation /covariation)
A: covariation, causation
2. When the price of apples falls, its demand increases. This is an example of -----
(positive/negative) correlation.
A: Negative
3. ----- gives a visual presentation of the relationship and is not confined to
linear relations.
A: scatter diagram
4. A numerical measure of ----- relationship between two variables is given by
Karl Pearson's coefficient of correlation.
A: Linear
5. The unit of correlation coefficient between height in feet and weight in kgs is
(a)Kg/feet
(b)Percentage
(c)Non-existent
(d)None
A: C
6. The range of simple correlation coefficient is
(a) 0 to infinity
(b) Minus one to plus one
(c) Minus infinity to infinity
(d) None of these
A: B
7. A high value of 'r' indicates strong linear relationship. True/False.
A: True.

8. If r_{XY} is positive the relation between X and Y is of the type

- (a) When Y increases X increases
- (b) When Y decreases X increases
- (c) When Y increases X does not change
- (d) When Y increases X decreases

A: A

9. If $r_{XY} = 0$, the variable X and Y are

- (a) linearly related
- (b) not linearly related
- (c) independent
- (d) perfectly correlated

A: B

10. Karl Pearson's coefficient of correlation is also known as -----

- (a) product moment correlation coefficient
- (b) simple correlation coefficient
- (c) rank correlation coefficient
- (d) both (a) and (b)

A: D

11. Calculate Karl Pearson's coefficient of correlation:

X: 20 18 16 15 14 12 12 10 8 5

Y: 12 16 10 14 12 10 9 8 7 2

(Ans: 0.87)

12. Compute Karl Pearson's coefficient of correlation and interpret the result:

Marks in Mathematics: 15 18 21 24 27

Marks in Economics : 25 25 27 31 32

(Ans: 0.95)

13. Calculate coefficient of correlation of the following data by the Product moment Method:

X: 8 6 4 3 4

Y: 9 7 4 4 6

(Ans: 0.95)

14. Calculate the coefficient of correlation by step deviation method:

Income (Rs Lac) : 23 27 28 29 30 31 33 35 36 39

Expenditure : 18 22 23 24 25 26 28 29 30 32

(Ans: 0.99)

