

### EXERCISE 5.1

- 1) Draw scatter diagram for the data given below and interpret it.

x	10	20	30	40	50	60	70
y	32	20	24	36	40	28	38

- 2) For the following data of marks of 7 students in Physics ( $x$ ) and Mathematics ( $y$ ), draw scatter diagram and state the type of correlation.

x	8	6	2	4	7	8	9
y	6	5	1	4	4	7	8

- 3) Draw scatter diagram for the data given below. Is there any correlation between Aptitude score and Grade points?

Aptitude score	40	50	55	60	70	80
Grade points	1.8	3.8	2.8	1.7	2.8	3.2

- 4) Find correlation coefficient between  $x$  and  $y$  series for the following data  
 $n = 15$ ,  $\bar{x} = 25$ ,  $\bar{y} = 18$ ,  $\sigma_x = 3.01$ ,  $\sigma_y = 3.03$ ,

$$\Sigma(x_i - \bar{x})(y_i - \bar{y}) = 122.$$

- 5) The correlation coefficient between two variables  $x$  and  $y$  is 0.48. The covariance is 36 and the variance of  $x$  is 16. Find the standard deviation of  $y$ .
- 6) In the following data one of the value of  $y$  is missing. Arithmetic means of  $x$  and  $y$  series are 6 and 8 respectively. ( $\sqrt{2} = 1.4142$ )

x	6	2	10	4	8
y	9	11	?	8	7

- (i) Estimate missing observation  
 (ii) Calculate correlation coefficient.

- 7) Find correlation coefficient from the following data, [Given :  $\sqrt{3} = 1.732$ ]

X	3	6	2	9	5
Y	4	5	8	6	7

- 8) Correlation coefficient between  $x$  and  $y$  is 0.3 and their covariance is 12. The variance of  $x$  is 9, find the standard deviation of  $y$ .



### Let's Remember

- 1) Bivariate data is the observation recorded on two variables.
- 2) Correlation is the study of mutual or joint relationship between two variables.
- 3) There are 3 types of correlation,  
 i) Positive correlation ii) Negative correlation iii) No correlation.
- 4) Correlation coefficient between the variables  $x$  and  $y$  is given by  $r_{xy} = \frac{\text{cov}(x, y)}{\sigma_x \sigma_y}$   
 $-1 \leq r \leq 1$ .
- 5) Numerical value of correlation coefficient is invariant to the change of origin and scale.

$$\begin{aligned} 7) \text{ cov}(x, y) &= \frac{1}{n} \Sigma(x_i - \bar{x})(y_i - \bar{y}) \\ &= \frac{1}{n} \Sigma x_i y_i - \bar{x} \bar{y} \end{aligned}$$

### MISCELLANEOUS EXERCISE

- 1) Two series of  $x$  and  $y$  with 50 items each have standard deviations 4.8 and 3.5 respectively. If the sum of products of deviations of  $x$  and  $y$  series from respective arithmetic means is 420, then find the correlation coefficient between  $x$  and  $y$ .
- 2) Find the number of pairs of observations from the following data,  
 $r = 0.15$ ,  $\sigma_y = 4$ ,  $\Sigma(x_i - \bar{x})(y_i - \bar{y}) = 12$ ,  
 $\Sigma(x_i - \bar{x})^2 = 40$ .

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