

( 6 )

Or

- (b) The results of survey to know the educational attainment among 100 persons randomly selected in a locality are given below :

	Education			
	Middle	High school	College	Total
Male	10	15	25	50
Female	25	10	15	50
Total	35	25	40	100

Can you say that education depends on gender?

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7. (a) You are given the following data :

	X	Y
Arithmetic mean	36	85
Standard deviation	11	8

Correlation coefficient between X and Y = 0.66.

- (i) Find the regression equations.

- (ii) Estimate the value of X, when Y = 75.  $8+3=11$

( 7 )

Or

- (b) Calculate correlation coefficient from the following data :

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$$\begin{aligned} N &= 10, & X &= 140, & \Sigma Y &= 150, \\ \Sigma (X-10)^2 &= 180, & \Sigma (y-15) &= 215, \\ \Sigma (X-10)(Y-15) &= 60 \end{aligned}$$

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