



WORKSHEET-5

SUBJECT - STATISTICS

Term : 1st

Topic - REGRESSION

Full Marks: 15

Date:07.05.2020

Class: XII

Q1. Select the correct alternative of the following questions.

(i) If e_i be the difference of the observed and predicted value of y in the scatter diagram while deriving the regression equation y on x, then mean of e is						
-	a) 1	b) 0	c)-1	d) none of these		
(ii)	If y and Y be respectively the ordinates of plotted and estimated values from regression line y on x , then difference of their means is					
	a) 0	b) 1	c)-1	d) none of these		
(iii)	In regression line y on x, the coefficient of determination is					
	a) 0	b) 1r1	c) r^2	d) none of these		
(iv)	For regression equation coefficient of determination is a measure indicates ?? as prediction formula. ?? stands for					
	a) unbiasedness	b) usefulness	c) completeness	d) none of these		
(v)	In regression lines y of a) variance of e	on x , the stand b) SD of e	ard error of estimate of c)mean of e	y obtained, is d) none of these		
(vi)	The correlation coefficient between x and e is					
	a) 0	b) 0.5	c) -0.5	d) none of these		
(vii)	The regression line is of no help as a prediction formula when V(e) =					
	a) s_Y	b) s_Y^2	c) s_{y}^{2}	d) none of these		
(ix)	The correlation coefficient between Y and e is					
	a) 0	b) 0.5	c) -0.5	d) none of these		

()	The correlation coefficient between y and Y is					
	a) r^2	b) 1r1	c) 0	d) none of these		
(xi)	In regression line y of a) V(Y)	on x, cov(y, Y) b) V(y)	is equal to c) 0	d) none of these		
(xii)	The regression line be a) x _i	ecomes predict b) y _i	ion formula when $Y_i = c = 0$	d) none of these		
(xiii)	The value of the regression coefficient lies between a) 0 and 1 b) -1 and 0 c) a and b both d) none of thes					
xiv)	For the equation x- y a) 1	= 7, the value o b) -1	of the correlation coefficient coefficient of the correlation coefficient of the coeffici	icient is d) none of these		
xv)	If the correlation coefficient of the bivariate observations $(5, 5)$, $(1, 7)$ a $(9, y)$ is 1, then y is equal to					
	a) 1	b) 2	c) 3	d) none of these		

Prepared by
Sanjay Bhattacharya