



SOLUTION OF WORKSHEET-8

SUBJECT - STATISTICS

Term : 1st

Topic - REGRESSION

Full Marks: 15

Date:16.05.2020

Class: XII

Q1. Select the correct alternative of the following questions.

| (i) | When an unbiased die is rolled once the expected face value is | | | | | |
|--------|---|---------------------------|----------------------------|---|--|--|
| (ii) | a) 3 b) 3.5 c) 4 d) none of these If x and X be respectively the ordinates of plotted and estimated values from regression line x on y, then difference of their means is | | | | | |
| | a) 0 | b) 1 | c)-1 | d) none of these | | |
| (iii) | In regression line x on y, the coefficient of determination is $\frac{1}{2}$ | | | | | |
| | a) 0 | b) 1r1 | c) r^2 | d) none of these | | |
| (iv) | When two regression a) 0 | n lines are perpo b) 1 | endicular then t c) 0.5 | the correlation coefficient is d) none of these | | |
| (v) | For the regression lines $2x + 3y = 5$ and $2x + y = 3$, the ratio of sd of y and x is a) 1 b) $3/4$ c) -1 d) none of these | | | | | |
| (vi) | To find the value of a) y on x | | ue of x, we us c) both | e the regression equation d) none of these | | |
| (vii) | For the equation x = a) 0 | 6, the value of b) -1 | the correlation c) 1 | coefficient is d) none of these | | |
| (viii) | In regression lines x on y, the standard error of estimate of y obtained, is a) variance of e b) SD of e c)mean of e d) none of these | | | | | |
| (ix) | The correlation coef a) 0 | ficient between b) 0.5 | Y and e is c) -0.5 | d) none of these | | |

| (x) | - | | on equation x or | ted value of x in the scatter n y, then mean of e is d) none of these | | |
|--------|---|-------------|------------------|---|--|--|
| (xi) | If for a ra ndom varia a) Positine | , | | servations are d) n0ne of these | | |
| (xii) | If a random variable realises infinite values, then expectation of that random variable must be | | | | | |
| | a) infinite | b) negative | c) zero | d)) none of these | | |
| (xiii) | If all values of a random variable are equal, then the mean deviation about mean will be equal to | | | | | |
| | a) that value. | b) one | c) zero | d)) none of these | | |
| (xiv) | For a random variable X, $E X - E(X) =$ a) 0 b) 1 c) $E(X)$ d) none of these | | | | | |
| (xv) | For a radom variable X a) Variance b) g | | | d) none of these | | |

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