

KERALA AGRICULTURAL UNIVERSITY

Score Normalisation of the two written examinations held for the recruitment of teachers on contract basis at KAUHS Vellanikkara

The marks in two tests can be standardized/normalised and single list can be prepared. The index obtained through normalisation can be pooled and ranks can be assigned accordingly based on the value in the index, giving highest rank to the largest number. The marks obtained in one examination can be converted to the equivalent marks in other test using the standardised marks.

Let the arithmetic mean and Standard Deviation of marks of all students who have taken the first examination ' \bar{X} ' and ' S_x ' respectively and the arithmetic mean and Standard Deviation of marks of all students who have taken the second examination ' \bar{Y} ' and ' S_y ' respectively.

Based on the mean and standard deviation of marks, an index of the relative performance of the candidate in the each examination is computed as

For the first test(X),

$(X - \bar{X})/S_x$, where \bar{X} is the Arithmetic Mean and S_x is the Standard Deviation for the first set of data

For the second test (Y)

$(Y - \bar{Y})/S_y$, where \bar{Y} is the Arithmetic Mean and S_y is the Standard Deviation for the second set of data

Since the two indices represents the relative performance of the candidates in two different examinations, by normalising the first and second sets separately using the above formula and thereby making as an index, we assume that the two examinations are conducted at the same conditions.

Hence, $X = \bar{X} + \frac{(Y - \bar{Y})}{S_y} S_x$

Sd/-

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