



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



SOLUTION OF WORKSHEET-36

SUBJECT - STATISTICS

Term : Final

Topic – Moment & Skewness

Class: XI

Full Marks: 15

Date:13 .02. 2021

Q1. Select the correct alternative of the following questions.

- (i) The value of m_0 is
(a) 0 **(b) 1** (c) 2 (d) none of these
- (ii) The value of m_1 is
(a) 0 (b) 1 (c) \bar{x} (d) none of these
- (iii) The value of m_2 is
(a) 0 (b) 1 (c) 2 **(d) none of these**
- (iv) The value of m_3 is
(a) 0 (b) 1 (c) 2 **(d) none of these**
- (v) For a set of observation $Sk_1 > 0$ implies that the set is
(a) –vely skewed (b) symmetric **(c) +vely skewed** (d) none of these
- (vi) For a set of observation $Sk_1 < 0$ implies that the set is
(a) –vely skewed (b) symmetric (c) +vely skewed (d) none of these
- (vii) For a set of observation $Sk_2 < 0$ implies that the set is
(a) –vely skewed (b) symmetric (c) +vely skewed (d) none of these

- (viii) For a set of observation $Sk_2 > 0$ implies that the set is
 (a) -vely skewed (b) symmetric **(c) +vely skewed** (d) none of these
- (ix) For a set of observation $Sk_2 = 0$ implies that the set is
 (a) -vely skewed **(b) symmetric** (c) +vely skewed (d) none of these
- (x) The value of m_4 is
 (a) mean (b) 1 (c) 2 **(d) none of these**
- (xi) All odd ordered central moments about zero is
 (a) < -4 (b) > -4 (c) $= -4$ **(d) none of these**
- (xii) All odd ordered central moments of symmrtric distribution about zero is
 (a) -1 (b) 1 (c) 0 **(d) none of these**
- (xiii) All even ordered central moments of symmrtric distribution about zero is
 (a) -3 (b) 1 (c) 3 **(d) none of these**
- (xiv) For a symmetric distribution
(a) mean= mode (b) mean $>$ median (c) mean $<$ median (d) none of these
- (xv) If all the observations are positive then m'_1 is m_1
 (a) less (b) greater (c) equal **(d) none of these**

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