



ST. LAWRENCE HIGH SCHOOL
A JESUIT CHRISTIAN MINORITY INSTITUTION



SOLUTION OF WORKSHEET-14

SUBJECT - STATISTICS

Term : 1st

Topic - CENTRAL TENDENCY

Class: XI

Full Marks: 15

Date:06 .07. 2020

Q1. Select the correct alternative of the following questions.

- (i) The marks of 5 students in a class test are 2, 4, 7, 8, 11. The harmonic mean is greater than
(a) 2 (b)4 (c)8 (d) none of these
- (ii) The HM is used to calculate the average of
(a) all values **(b) observation in HP**(c)observation in AP (d) none of these
- (iii) The marks of 5 students in a class test are 2, 4, 7, 8, 11. The harmonic mean is less than
(a) 2 (b)4 **(c)11** (d) none of these
- (iv) If all the Observation is equal to $\frac{1}{5}$, then the hm is equal to
(a) 1 **(b) $\frac{1}{5}$** (c)-5 (d) none of these
- (v) Harmonic mean of $-(2n+3), \dots, -1, 0, 1, \dots, (2n-1)$ is
(a) -1 (b) 0 (c) $\frac{n-1}{2}$ **(d) none of these**
- (vi) Harmonic mean of honesty of several people
(a)n-1 (b) 0 (c) $\frac{n-1}{2}$ **(d) none of these**

- (vii) Harmonic mean can always be calculated of a set having observation
 (a) countably infinite (b) uncountably infinite
 (c) uncountably finite (d) **none of these**
- (viii) If $5x=0.7y^2$ and harmonic mean of x is 7, then harmonic mean of y is
 (a) 0 (b) 1 (c) 0.5 (d) **none of these**
- (ix) The combined harmonic mean depends upon the harmonic mean of
 (a) 1st set (b) 2nd set (c) **both** (d) none of these
- (x) The composite Harmonic mean is less than the harmonic mean of the given sets which is
 (a) **maximum** (b) minimum (c) both (d) none of these
- (xi) The composite Harmonic mean is greater than the harmonic mean of the given sets which is
 (a) maximum (b) **minimum** (c) both (d) none of these
- (xii) The sum of differences of harmonic mean from to all the observations is
 (a) -1 (b) 1 (c) 0 (d) **none of these**
- (xiii) There are 10 observations with harmonic mean 3. If 0.3 is added to all the observations then the geometric mean of the new set is
 (a) -30 (b) 10 (c) 30 (d) **none of these**
- (xiv) There are 10 observations with hm. 4. If all the observations be subtracted by 4 then the sum of the reciprocal of those are
 (a) 0 (b) 2 (c) 1 (d) **none of these**
- (xv) The suitable measure to find the average of any rate measure is
 (a) AM (b) GM (c) **HM** (d) none of these

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