



ST. LAWRENCE HIGH SCHOOL
A JESUIT CHRISTIAN MINORITY INSTITUTION



SOLUTION OF WORKSHEET-16

SUBJECT - STATISTICS

Term : 1st

Topic – CENTRAL TENDENCY

Class: XI

Full Marks: 15

Date:08 .07. 2020

Q1. Select the correct alternative of the following questions.

- (i) The marks of 5 students in a class test are 1, 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 GP (c) observation in AP (d) none of these
- (iii) The marks of 5 students in a class test are 2, 4, 7, 8, 23. The harmonic mean is less than
(a) 2 (b) 4 (c) 11 (d) none of these
- (iv) If all the Observation is equal to $-\frac{1}{7}$, 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) ∞
- (vi) Harmonic mean of religion of several people
(a) $n-1$ (b) 0 (c) $\frac{n-1}{2}$ (d) none of these

- (vii) All the 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 $5x=9y^2$ 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 mean depends upon the mean of
 (a) 1st set (b) 2nd set (c) both (d) none of these
- (x) The composite 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 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 except one value 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 arithmetic 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 added 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 all measure is
 (a) AM (b) GM (c) HM (d) none of these

Prepared by
 Sanjay Bhattacharya

