

DELHI PUBLIC SCHOOL, JAMMU
Assignment

Class: XI
Sub: Applied Maths

Month: August

TOPIC : Statistics.

Based on your understanding of e-lectures-cum-PPTs, video links and other-e-resources share with you, answer the following question.

Choose the correct answer from the given MCQ:

Q1. For a frequency distribution mean deviation from mean is computed by

a. M.D. = $\frac{\sum f}{\sum f|d|}$

b. M.D. = $\frac{\sum d}{\sum f}$

c. M.D. = $\frac{\sum fd}{\sum f}$

d. M.D. = $\frac{\sum f|d|}{\sum f}$

Q2. For a frequency distribution standard deviation is computed by applying the formula

a. $\sigma = \sqrt{\frac{\sum fd^2}{\sum f} - \left(\frac{\sum fd}{\sum f}\right)^2}$

b. $\sigma = \sqrt{\left(\frac{\sum fd}{\sum f}\right)^2 - \frac{\sum fd^2}{\sum f}}$

c. $\sigma = \sqrt{\frac{\sum fd^2}{\sum f} - \frac{\sum fd}{\sum f}}$

d. $\left(\frac{\sum fd}{\sum f}\right)^2 - \frac{\sum fd^2}{\sum f}$

Q3. If v is the variance and σ is the standard deviation, then

a. $v = \frac{1}{\sigma^2}$

b. $v = \frac{1}{\sigma}$

c. $v = \sigma^2$

d. $v^2 = \sigma$

Q4. The mean deviation from the median is

a. equal to that measured from another value

b. maximum if all observations are positive

c. greater than that measured from any other value

d. less than that measured from any other value

Q5. If $n = 10$, $\bar{X} = 12$ and $\sum x_i^2 = 1530$, then the coefficient of variation is

a. 36%

b. 41%

c. 25%

d. none of these

Q6. The standard deviation of the data:

x:	1	a	a²	aⁿ
f:	ⁿC₀	ⁿC₁	ⁿC₂	ⁿC_n

is

a. $\left(\frac{1+a^2}{2}\right)^n - \left(\frac{1+a}{2}\right)^n$

b. $\left(\frac{1+a^2}{2}\right)^{2n} - \left(\frac{1+a}{2}\right)^n$

c. $\left(\frac{1+a}{2}\right)^{2n} - \left(\frac{1+a^2}{2}\right)^n$

d. none of these

Q7. The mean deviation of the series a, a + d, a + 2d, ..., a + 2n from its mean is

a. $\frac{(n+1)d}{2n+1}$

b. $\frac{nd}{2n+1}$

c. $\frac{n(n+1)d}{2n+1}$

d. $\frac{(2n+1)d}{n(n+1)}$

Q8. A batsman scores runs in 10 innings as 38, 70, 48, 34, 42, 55, 63, 46, 54 and 44. The mean deviation about mean is

a. 8.6

b. 6.4

c. 10.6

d. 7.6

Due date of submission of assignment 20 August,2021

send your assignment on e-mail ID of your respective subject teacher

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Students must mention their name,class/section and date in their assignment.

your assignment will be marked for internal/term assessment. Therefore you are required to submit it on time.

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