## $\begin{array}{c} \textbf{SYLHET CADET COLLEGE} \\ \textbf{FORTNIGHTLY EXAMINATION - } 2025 \text{ (T1F1)} \end{array}$

CLASS: XI

## SAQ and Creative Questions

Subject: STATISTICS

 $FULL\ MARKS-20$ TIME - 40 Minutes

	1 OLL MINIONS 2
Candidates are asked not to leave any mark or spot on the question	paper.
1. Answer in brief.	
(a) Find the square of summation: 3, 7, 5, 9, 6	
(b) If $\bar{X} = 25$ , $CV = 50\%$ , $\sigma^2 = ?$	
(c) Arithmetic mean of a variable is 16 and variance is 9. What is the value of CV?	
(d) Find the sum of squares of differences from 10: 6, 8, 10, 12, 14	
(e) What is the variance of first 5 natural numbers?	
(f) Does mean deviation depend on all values of a dataset?	
(g) When is variance less than standard deviation?	
(h) Write down the formula of Quartile Deviation.	
(i) Is coefficient of variation a pure number?	
(j) If $n = 10, \sum x_i = 120, \sum x_i^2 = 2000, CV = ?$	
2. Goals scored by two footballers in five consecutive seasons are given below:	
Footballer A: 10, 15, 12, 9, 20	
Footballer B: 25, 5, 10, 15, 6	
(a) What does dispersion measure?	
(b) Is $\sum  x_i - \bar{x} $ always greater than $\sum (x_i - \bar{x})$ ? Prove mathematically.	
(c) Find Mean Deviation about mean and median of the footballer A.	
(d) Which footballer should be hired a club? Determine with the help of a suitable remeasure of dispersion.	lative
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