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Department of Mathematics, 2023-2024

CLASS: XI **CBQ – Statistics 13-08-2023**

Q.1.	The mean deviation about the mean for data: 6, 7, 10, 12, 13, 4, 8, 12							
	A	3	**B**	2.75	**C**	0	**D**	1
Q.2.	The mean deviation about the median for the following data: 3, 9, 5, 3, 12, 10, 18, 4, 7, 19, 21.							
	A	9	**B**	5	**C**	5.27	**D**	10
Q.3.	The variance of 30 observations is 5. If each observation is multiplied by 2, find the new variance of the resulting observations.							
	A	20	**B**	5	**C**	10	**D**	30
Q.4.	*For a grouped frequency distribution* , $\sum f_i = 30$ *and* $\sum f_i(x_i - \overline{x})^2 = 1371$, then variance							
	A	1341	**B**	457	**C**	45.7	**D**	4570
Q.5.	The mean of 5 observations is 4.4 and their variance is 8.24. If three of the observations are 1, 2 and 6, then other two observations							
	A	4 and 9	**B**	3 and 6	**C**	5 *and* 8	**D**	6 and 7
Q.6.	*The mean of first n natural numbers is*							
	A	n	**B**	$n+1$	**C**	$n-1$	**D**	$\frac{n+1}{2}$
Q.7.	If each of the observation $x_1, x_2, x_3, \ldots . x_n$ is increased by 'a', where a is a negative or positive number, then the variance							
	A	Will be increased by a	**B**	remains unchanged	**C**	Will be decreased by a	**D**	Will becomes a times
Q.8.	*The mean of* 100 *observations is* 110. *If one observation* 103 *is to be changed as* 130, *what will be the* new mean?							
	A	111	**B**	110.27	**C**	100.27	**D**	90

Q.9.	The mean of the squares of the deviations from mean is called						
	A	*standard deviation*	**B**	*mode*	**C**	median	**D**	*variance*
Q10.	The range of the data 4, 7, 8, 9, 10, 12, 13 and 17 is						
	A	4	**B**	7	**C**	13	**D**	21
Q.11.	The sum of 10 observations 55 and sum of squares of these observations is 385. Then variance is						
	A	335	**B**	33.5	**C**	8.25	**D**	0
Q.12	*The standard deviation of* $7, 9, 11, 13, 15$						
	A	2.83	**B**	3.23	**C**	2.53	**D**	8
Q13.	*The average of* 5 *observations is* 6 *and average of three of them is* 4, *then average of remaining two numbers*						
	A	7	**B**	8	**C**	9	**D**	10
Q14.	What is the variance for the following:						
	A	1.8	**B**	1.56	**C**	4.8	**D**	2.4
Q15.	The mean of 100 observations is 50 and their standard deviation is 5. The sum of squares of all observations is						
	A	50000	**B**	250000	**C**	252500	**D**	255000

x	0	1	2	3	4
f	2	2	3	2	1

Answers	**1**	B	**2**	C	**3.**	A	**4**	C
	5	A	**6**	D	**7**	B	**8**	B
	9	D	**10**	C	**11**	C	**12**	A
	13	C	**14**	B	**15**	C		

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