Proxima	SYLHET CADET COLLEGE	
	MODEL TEST EXAMINATION - 2025	Ques Setter
	CLASS: HSC	Moderator
	MULTIPLE CHOICE QUESTIONS	VP
	STATISTICS	·
	FIRST PAPER	Subject Code: 1 2 9
	[According to the Syllabus of 2025]	
	$\mathrm{TIME}-15~\mathrm{minutes}$	Set: Gha
	$\rm FULL~MARKS-15$	

[N.B. – Answer all the questions. Each question carries ONE mark. Block fully, with a black ball- point pen, the

circle of the letter that stands for the correct/best answer in the "Answer sheet" for the Multiple Choice Questions Examination.] Candidates are asked not to leave any mark or spot on the question paper. 1. The second central moment of the natural numbers 1 through 12 is -(a) 12.93 (b) 11.92 (c) 10.94 (d) 12.60 Answer the next THREE questions based on the following information The arithmetic mean, Pearson's coefficient of skewness, and coefficient of variation of a distribution are 50, -0.4, and 40 %, respectively. 2. What is the standard deviation? (a) 50 (b) 20 (c) 30 (d) 40 3. The Mode is – (a) 45 (b) 50 (c) 60 (d) 58 4. The Median is (a) 52.67 (b) 5 (c) 20 (d) 10.39 5. $\beta_2 = \sqrt{9}$ implies data are-(a) Leptokurtic (b) Platykurtic (c) Mesokurtic (d) Symmetric 6. The moments around the origin are called – (a) Central moments (b) Raw moments (d) Measures of dispersion (c) First moment 7. The Range of Karl Pearson's measure of skewness – (a) (0, 1)(b) (-1, 1) (c) (-3, 3)(d) $(0, \infty)$ Answer the next two questions based on the following information The first and second moments of a distribution around 2 are 13 and 195, respectively. 8. What is the arithmetic mean? (a) 15 (b) 12 (c) 11 (d) 26 9. What is its variance? (a) 20 (b) 21 (c) 26 (d) 25 10. $\gamma_1 = 0.43$ implies-(a) Left Skew (b) Symmetry (c) Right Skew (d) Mesokurtic 11. What is the purpose of moments? (a) To find the center of data (b) To find dispersion (c) To find relationship between skewness and kur-(d) To uniquely identify a distribution tosis 12. The mean of a variable is 3.2. Find the first raw moment around 0. (a) 3.2 (b) -3.2 (c) 0(d) 1.2

13.	The five-number sum	e five-number summary of a data set consists of the following:					
	i. Minimum value ii. Maximum value iii. Median (Q2), First Quartile (Q1), Third Quartile (Q3)						
	Which one is correct?						
	(a) i and ii	(b) i and iii	(c) ii and iii	(d) i, ii and iii			
14.	4. What kind of distribution is clustered around the mean?						
	(a) Left-skewed	(b) Symmetrical	(c) Right-skewed	(d) None of the above			
15. In a negatively skewed distribution –							
	i. there is a long tail on the left ii. median is greater than mean iii. high values have frquencies						
	Which one is correct?						
	(a) i and ii	(b) i and iii	(c) ii and iii	(d) i, ii and iii			

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