## SYLHET CADET COLLEGE

TEST EXAMINATION - 2023

CLASS: XII

(a) 55.75

(b) 43.75

MULTIPLE CHOICE QUESTIONS

STATISTICS FIRST PAPER

TIME – 25 minutes FULL MARKS – 25

		Set	D
Subject Code:	1	2	9

[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.	1. Which one represents an infinite population?					
	(a) Books in a library		(b) Fish in the Pacific O			
	(c) Members of a sports club (d) Mobile phones in a city					
2.	Which statistical method requires bivariate or multivariate data?					
	(a) Standard deviation	(b) Histogram	(c) Regression analysis	(d) Median		
3.	a survey categorizing people by their favorite color is an example of which measurement scale?					
	(a) Nominal	(b) Ordinal	(c) Interval	(d) Ratio		
4.	If $\sum_{i=1}^{25} z_i^2 = 75$ and $\sum_{i=1}^{25}$	$z_i = 50$ , compute $\sum_{i=1}^{25} z_i^2 +$	$2\sum_{i=1}^{25} z_i - 125.$			
	(a) 50	(b) 75	(c) 100	(d) 25		
5.	If $y_1 = 5$ , $y_2 = 2$ , $y_3 =$ (a) 50	-1, and $y_4 = 4$ , compute (b) 40	$\sum_{i=1}^{4} (y_i^2 + 2).$ (c) 44	(d) 60		
			(C) 44	(d) 00		
6.	5. If $f_i = 3, 5, 7$ and $x_i = 2, 4, 6$ , find $\sum_{i=1}^{3} f_i x_i^2$ .					
	(a) 260	(b) 280	(c) 344	(d) 320		
7.	i. is stable for different samples ii. provides a single representative value iii. ignores extreme values completely Which one is correct?					
	(a) i and ii	(b) i and iii	(c) ii and iii	(d) i, ii and iii		
Q						
0.		For two non-zero positive numbers, the harmonic mean is 10 and the arithmetic mean is 25. What is the geometric mean?				
	(a) 15	(b) 20	(c) 25	(d) 30		
9.	Which measure is su	Which measure is suitable for open-ended distribution?				
	(a) Median	(b) Mode	(c) Geometric Mean	(d) Arithmetic mean		
10.	Which is not a meas	ure of central tendency?				
	(a) Arithmetic mean	(b) Mode	(c) Range	(d) Quadratic mean		
	Answer the next three questions based on the following information					
	The following table shows weekly production of milk (in liters) by different varieties of cows.					
		I1   10.20   20.20	20 40   40 50   50 60	CO 70		
	-	Interval         10-20         20-30           Frequency         5         12	30-40   40-50   50-60     18   25   20	60-70 10		
11.	What is the median?	?				
	(a) 43	(b) 44	(c) 45	(d) 50		
12.	What is the lower limit of class interval for first quartile?					
	(a) 10	(b) 20	(c) 30	(d) 40		
13.	What is the 3rd qua	rtile?				
	-					

(c) 53.15

(d) 53.75

## 14. **Mode is** –

- i. The most frequently occurring value ii. Unaffected by extreme values
- iii. Always unique in a dataset

## Which one is correct?

(a) i and ii

(b) i and iii

(c) ii and iii

(d) i, ii and iii

"Quote" – Author

## Answer Key

 1. (b) Fish in the Pacific Ocean
 6. (c) 344
 11. (b) 44

 2. (c) Regression analysis
 7. (a) i and ii
 12. (c) 30

 3. (a) Nominal
 8. (a) 15

 4. (a) 50
 9. (b) Mode
 13. (d) 53.75

 5. (c) 44
 10. (c) Range
 14. (a) i and ii