MYMENSINGH GIRLS' CADET COLLEGE

YEAR FINAL EXAMINATION - 2025

CLASS: XI

Which one is correct?

(b) i and iii

(a) i and ii

MULTIPLE CHOICE QUESTIONS

STATISTICS FIRST PAPER

[According to the Syllabus of 2026]

TIME - 25 minutes FULL MARKS - 25

Subject Code:	1	2	9

Set: Ka

[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.	Which one represents an infinite population?						
	(a) Books in a library		(b) Fish in the Pacific Ocean				
	(c) Members of a sports	(c) Members of a sports club (d) Mobile phones in a cit		city			
2.	Which cannot be per	formed using Univari	ate data?				
	(a) Central tendency	(b) Dispersion	(c) Skewness	(d) Regression			
3.	Given $\sum_{i=1}^{10} a_i^2 = 40$ and $\sum_{i=1}^{10} a_i = 20$, find the value of $2\sum_{i=1}^{10} a_i^2 - 3\sum_{i=1}^{10} a_i + 60$.						
	(a) 70	(b) 100	(c) 80	(d) 50			
4.	What is the raw mat	erial of research?					
	(a) Data	(b) Theory	(c) Graph	(d) Mean			
	Answer the next TH	REE questions based	on the following infor	mation			
	Radius of 80 trees are re	ecorded and this frequence	ey distribution is construc	cted.			
		Radius (cm) 0-10 No. of Trees 20	10-20 20-30 30-40 15 21 24				
5.	How many trees have	e radius between 10 a	nd 30?				
	(a) 30	(b) 15	(c) 36	(d) 21			
6.	How many trees have	e radius at least 20?					
	(a) 44	(b) 45	(c) 24	(d) 21			
7.	What percent of tree	es have radius between	n 20 and 40?				
	(a) 44%	(b) 56%	(c) 46%	(d) 53%			
8.	Which of the following	Which of the following is an example of secondary data?					
	i. Data obtained from a published journalii. Data collected by a government agency and used by a researcheriii. Data gathered directly through interviews						
	Which one is correct?						
	(a) i and ii	(b) ii and iii	(c) i and iii	(d) i, ii and iii			
9.	. Which is not a measure of central tendency?						
	(a) Arithmetic mean	(b) Mode	(c) Range	(d) Quadratic mean			
10.	A good measure of c	A good measure of central tendency -					
	i. is loosly definedii. takes into consideration all valuesiii. easily understandable						

(c) ii and iii

(d) i, ii and iii

42 44 59 64 70 72 74 91 94 are 9 values.

11.	What is the median?	•					
	(a) 64	(b) 70	(c) 72	(d) 71			
12.	What is the first quartile?						
	(a) 42.4	(b) 44.7	(c) 51.5	(d) 64.2			
13.	Above which value lie 60% observations?						
	(a) 70.4	(b) 72.0	(c) 74.6	(d) 66.4			
14.	What is the minimum possible value of standard deviation?						
	(a) ∞	(b) -1	(c) 0	(d) 1			
15.	Which measure is un	re is unit-free?					
	(a) Range		(b) Mean deviation				
	(c) Standard deviation		(d) Coefficient of variation				
16.	The moments around the origin are called –						
	(a) Central moments	(b) Raw moments	(c) First raw moment	(d) Measures of dispersion			
17.	Standard deviation -	_					
	i. depends on all valuesii. is not affected by outliersiii. can be analyzed algebraically						
	Which one is correct	?					
	(a) i and ii	(b) i and iii	(c) ii and iii	(d) i, ii and iii			
18.	First moment around	d zero is –					
	(a) 0	(b) 1	(c) -1	(d) Arithmetic Mean			
19.	Which might have a negative value?						
	(a) μ_4	(b) μ_3	(c) μ'_2	(d) μ_2			
20.	In a postively-skewed	d distribution–					
	i. Frequencies of higher values are lowerii. Frequencies of low values are higheriii. Frequencies of higher values are higher						
	Which one is correct?						
21. What is the formula of IQR?							
	(a) $IQR = Q_3 + Q_1$	(b) $IQR = Q_3 - Q_1$	(c) $IQR = 2Q_3 - Q_1$	$(d) IQR = \frac{Q_3 - Q_1}{2}$			
22.	The lowest possible	value of the correlation	n coefficient —				
	(a) 1	(b) 0	$(c) -\infty$	(d) -1			
23.	Karl Pearson's method of determining the strength of correlation is not applicable for - (a) Qualitative variable (b) Quantitative variable(c) Discrete variable (d) Continuous variable						
24.	Two variables having	wo variables having changes in same direction at same rates display —					
	(a) Perfect negative corr	erfect negative correlation (b) Partial positive correlation					
	(c) Perfect positive corr	elation	(d) Partial negative corr	relation			
25.	Which organization typically publishes non-official statistics in the field of health?						
	(a) UNICEF		(b) World Health Organ	nization (WHO)			
	(c) World Bank		(d) United Nations (UN)			