Sylhet Cadet College Pre-Test Examination - 2022 Class: XII

 $\mathbf{Set} \cdot \mathbf{C}$

Full Marks: 25

Answer all the questions. Each question is worth one (1) mark.								
1.	. Which measure of central tendency is suitable for qualitative variable?							
	(a) Arithmetic Mean	(b) Harmonic Mean	(c) Quadratic Mean	(d) Mode				
2.	In presence of negative values, which measure is not usable?							
	(a) Arithmetic Mean	(b) Geometric Mean	(c) Quadratic Mean	(d) Harmonic Mean				
3.	What is the arithmetic mean of first n odd natural numbers?							
	(a) $\frac{n+1}{n}$	(b) n	(c) n+1	(d) $\frac{n+1}{2}$				
4.	Which measure is not used in determining skewness?							
	(a) Arithmetic Mean	(b) Geometric Mean	(c) Median	(d) Mode				
5.	5. Inappropriate for algebraic analysis—							
	i. Medianii. Modeiii. Geometric Mean							
	Which one is true?	(a.)	()	(1)				
	(a) i	(b) ii	(c) i & ii	(d) ii & iii				
	Answer the next two questions based on the following information							
	$\frac{\text{Accident} 4 6 7 8 9}{\text{Frequency} 2 0 4 4 1}$							
	Frequency 2 0 4 4 1							
6.	Fifth Decile is –							
	(a) 0	(b) 8	(c) 7	(d) 6				
7.	Which of the following is mode?							
	(a) 4	(b) 8	(c) 0	(d) 7				
8.	Which measure gives	ich measure gives a value from within the values?						
	(a) Arithmetic Mean	(b) Geometric Mean	(c) Median	(d) Mode				
9.	Which one is not a proper measure of central tendency?							
	(a) 2nd Quartile	(b) Third Decile	(c) 3rd Quintile	(d) 110th Percentile				
10.	Which can be used to measure dispersion?							
	(a) μ'_2	(b) μ_1	(c) μ_2	(d) μ'_1				
11.	The formula of coefficient of variance (CV) is –							
	(a) $\frac{\mu_2}{n} \times 100$	(b) $\frac{\mu_2}{\mu_1} \times 100$	(c) $\frac{\mu_2}{\bar{x}} \times 100$	(d) $\frac{\mu_3}{\sigma} \times 100$				
12.	First moment around zero is –							
	(a) 0	(b) 1	(c) -1	(d) Arithmetic Mean				

13.	Which values are used in constructing Box & Whisker Plot?					
	(a) Mode	(b) X_L	(c) $Q_1 \& Q_3$	(d) $Q_1, Q_2 \& Q_3$		
14.	Which might have a negative value?					
	(a) μ_4	(b) μ_3	(c) μ'_2	(d) μ_2		
15.	In a symmatric distr	${\bf ibution} -$				
	i. Arithmetic Mean = Mode = Median ii. $Q_2-Q_1=Q_3-Q_2$ iii. $Q_1-X_H=X_H-Q_3$					
	Which one is true?	(a.)		(-)		
	(a) i & ii	(b) ii & iii	(c) i &iii	(d) i, ii &iii		
16.				Coefficient of skewness?		
	(a) 24.4	(b) 1	(c) 0.03	(d) 29.45		
17.	$\sqrt{\beta_1} = -0.23$ implies— (a) Left Skew	(b) Symmetry	(c) Right Skew	(d) Mesokurtic		
18.	Which is not included in five number summary?					
	(a) Arithmetic Mean	(b) X_H	(c) Q_2	(d) Q_3		
19.	$\beta_2 = \sqrt{9}$ implies data	are–				
	(a) Leptokurtic	(b) Platykurtic	(c) Mesokurtic	(d) Symmetric		
20.	2nd Central Moment	is -				
	(a) $\mu_2 - \mu_1'$	(b) $\mu_2 + \mu_1'$	(c) $\mu_2 - \mu_1^{\prime 2}$	(d) $\mu_2' - \mu_1^2$		
21.	A company is constantly getting greater revenue than previous year; this is—					
	(a) Seasonal Variation	(b) General Trend	(c) Irregular Variation	(d) Cyclic Variation		
22.	Which is not a method of finding general trend?					
	(a) Graphical Method	(b) Moving Average	(c) Semi-Average	(d) Moving Median		
	Answer the next two questions based on the following table:					
		Year 2007 2008 Sales 5 35	2009 2010 2011 201 34 40 42 204			
23.	In Semi-Average method, what is the 2nd average?					
	(a) 74	(b) 24.67	(c) 95.33	(d) 28		
24.	For this data, which method would give the best measure of trend?					
	(a) 3-yearly Moving Av	erage	(b) 4-yearly Moving Av	rerage		
	(c) Semi-Average		(d) Graphical Method			
25.	which component of time series represents a natural disaster?					
	(a) Seasonal Variation	(b) General Trend	(c) Irregular Variation	(d) Cyclic Variation		