Introduction to Statistics

1	**The Mean of sample is**
A	always equal to the mean of the population
B	computed by summing the data values and dividing the sum by (n - 1)
C	**computed by summing all the data values and dividing the sum by the number of items**
D	always equal to the mean of the population
2	**The sum of the percent frequencies for all classes will always equal**
A	One
B	the number of classes
C	the number of items in the study
D	**100**
3	**Since the mode is the most frequently occurring data value, it**
A	is always larger than the median
B	is always larger than the mean
C	must have a value of at least two
D	**none of the above answers is correct**
4	**A list of 5 pulse rates is: 70, 64, 80, 74, 92. What is the median for this list?**
A	**74**
B	76
C	77
D	70
5	**The science of collecting, organizing, presenting, analyzing and interpreting data to assist in making more effective decisions is called**
A	Parameter
B	**Statistics**
C	Population
D	Sample
6	**When the characteristic being studied is nonnumeric, it is called a**
A	Quantitative variable
B	Discrete variable
C	**Qualitative variable**
D	Continuous variable
7	**A specific characteristic of a population is called**
A	**Parameter**
B	Variable
C	Sample
D	Population
8	**Statistical results are**
A	Absolutely correct
B	Not true
C	**True on average**

D	Universally true
9	**Class interval is measured as**
A	The sum of the upper and lower limit
B	Half the sum of upper and lower limit
C	Half the difference between upper and lower limit
D	**The difference between upper and lower limit**
10	**Pie chart represents the components of a factor by**
A	Percentages
B	Angels
C	**Sectors**
D	Circles
11	**Histograms are**
A	**One dimensional diagrams**
B	Two dimensional diagrams
C	Three dimensional diagrams
D	None of the above
12	**If a constant 5 is added to each observation of a set, the mean is**
A	**Increased by 5**
B	Decreased by 5
C	5 times the original mean
D	Not affected
13	**Extreme value in the data set have no effect on**
A	Average
B	**Median**
C	Geometric mean
D	Harmonic mean
14	**Which of the following is a unit less measure of dispersion**
A	Standard deviation
B	Mean deviation
C	**Coefficient of variation**
D	Range
15	**Which one of the given measures of dispersion is considered best?**
A	**Standard deviation**
B	Range
C	Variance
D	Coefficient of variation
16	**The average of the sum of squares of the deviations about mean is called…**
A	**Variance**
B	Absolute deviation
C	Standard deviation

D	Mean deviation
17	**For a negatively skewed distribution, the correct inequality is**
A	Mode < Median
B	Mean < Median
C	**Mean < Mode**
D	None of the above
18	**Which of the following is a measure of central value?**
A	**Median**
B	Standard deviation
C	Mean deviation
D	Quartile deviation
19	**Which mean is most affected by extreme values?**
A	Geometric mean
B	Harmonic mean
C	**Arithmetic mean**
D	Trimmed mean
21	**In a case of positive skewed distribution the relation between mean, median and mode that hold is**
A	Median > Mean > Mode
B	**Mean > Median > Mode**
C	Mean = Median = Mode
D	Mean < Median < Mode
22	**Range of data set 8, 12, 5, 15 is…**
A	2
B	5
C	**10**
D	15
23	**Index numbers are also known as**
A	Economic barometers
B	Signs and guide posts
C	**Both (A) and (B)**
D	Neither (A) nor (B)
24	**Index number is a**
A	Measure of relative changes
B	A special type of an average
C	A percentage relative
D	**All the above**
25	**Laspeyre's index numbers possess**
A	Downward bias
B	No bias

C	**Upward bias**
D	None of the above
26	**If a frequency distribution is positively skewed, the mean of the distribution is**
A	**Greater than the mode**
B	Less than the mode
C	Equal to mode
D	Less than the mean
27	**The coordinates (X, Y) satisfy the lines of regression of**
A	Y on X
B	X on Y
C	**Both the regression lines**
D	None of the two regression lines
28	**The value of correlation ratio varies from**
A	**-1 to 1**
B	-1 to 0
C	0 to 1
D	0 to ∞
29	**The nature of correlation between two variables is known from**
A	Bar diagram
B	Pie diagram
C	Pictogram
D	**Scatter diagram**
30	**In given data set; 1,2,3,4,5 is**
A	Mean < Median
B	Mean > Median
C	**Mean = Median**
D	Mean = Mode
31	**A time series consist of**
A	Two components
B	Three components
C	**Four components**
D	Five components
32	**Secular trend is indicative of long term variation towards**
A	Increase only
B	Decrease only
C	**Either increase or decrease**
D	None of the above
33	**Cyclic variations in a time series are caused by**
A	Lockouts in a factory
B	War in a country

C	Floods in the states
D	**None of the above**
34	**Trend in a time series means**
A	**Long term regular movement**
B	Short term regular movement
C	Both (A) and (B)
D	Neither (A) nor (B)
35	**Moving average method of ascertaining trend is not suitable for**
A	Finding trend values
B	**Projections**
C	Both (A) and (B)
D	Neither (A) nor (B)
36	**The sales of a departmental store on Dushera and Diwali are associated with the component of a time series**
A	Secular trend
B	**Seasonal variation**
C	Irregular variation
D	Cyclical variation
37	**When a population is infinite, the appropriate method is**
A	Census method
B	**Sample method**
C	Both
D	No one
38	**Average calculated in which all the items are not equally important is called**
A	Simple average
B	**Weighted average**
C	Combined arithmetic mean
D	None of Above
39	**The collection of data from every member of a population is called**
A	**Census**
B	Sample
C	Variable
D	None of above
40	**A data set may have**
A	**More than one mode**
B	More than one mean
C	More than one median
D	More than one mode, mean & median
41	**Measure of the extent to which a probability distribution of a real-valued random variable lean (bend) to one side of the mean is called**

A	Dispersion
B	**Skewness**
C	Variation
D	Variable
42	**A set of statistically observations arranged in sequential (chronological) order is called…**
A	Trend
B	Index number
C	**Time Series**
D	None of above
43	**A statistical measure designed to show changes in a variable or a group of related variables with respect to time, place or other characteristics is called…**
A	Trend
B	**Index number**
C	Time Series
D	None of above

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