

SPECIAL THEORY MCQS**Statistical Description of Data****PYQ Jun 2024**

Two frequency distributions are given to you. To compare them visually, the best diagram to be drawn on the same sheet is

- a. Pie Chart
- b. Histogram
- c. Frequency Polygon
- d. Bar Chart

Ans: ~~a~~

PYQ Jun 2024

Which sampling is based on the discretion of the sampler?

- a. Systematic
- b. Multi-stage
- c. Stratified
- d. Purposive

Ans: d

PYQ Jun 2024

Which of the following is not a type of sampling?

- a. Probability
- b. Non-Probability
- c. Stand-Alone
- d. Mixed

Ans: c

PYQ Jun 2024

The following set of data cannot be presented in a table

- a. The heights of students described in centimeters
- b. The weights of candidates expressed in kilograms
- c. The amount of rainfall opined as “medium”, “average”, “heavy”, etc.
- d. The number of bills per day cleared by an auditor in a month

Ans: c

PYQ Jun 2024

An ogive is used to represent:

- a. The frequency of each data point
- b. The number of data points falling below a specific value
- c. The proportion of data points falling below a specific value
- d. The relationship between two variables

Ans: b

PYQ May 2018

Frequency Density is used in the construction of

- a. Histogram
- b. Ogive
- c. Frequency Polygon
- d. None



Ans: a

PYQ Nov 2018

The following Frequency Distribution

X	12	17	24	36	45
F	2	5	3	8	9

- a. Continuous Distribution
 b. Discrete Distribution
 c. Cumulative Frequency Distribution
 d. None of the Above

Ans: b

PYQ Nov 2018

A suitable graph for representing the portioning of total into sub-parts in statistics is

- a. Pie Chart
 b. Pictograph
 c. Ogive
 d. Histogram

Ans: a

PYQ Jun 2019

_____ series is continuous.

- a. Open Ended
 b. Exclusive
 c. Close Ended
 d. Unequal Class Interval

Ans: b

PYQ Nov 2020

The average of salaries in a factory is Rs. 47000. The statement that the average salary is Rs. 47000 is _____

- a. Descriptive Statistics
 b. Inferential Statistics
 c. Detailed Statistics
 d. Undetailed Statistics

Ans: a

PYQ Nov 2020

Statistics cannot deal with _____ data

- a. Quantitative
 b. Qualitative
 c. Textual
 d. Undetailed

Ans: b

PYQ Nov 2020

The _____ is used when we want to examine the relationship between two variables.

- a. Bar Graph
 b. Pie Chart
 c. Line Chart
 d. Scatter Plot

Ans: d

PYQ Nov 2020

When data are classified according to one criterion then it is called as _____ classification

- a. Quantitative
 b. Qualitative
 c. Simple
 d. Factored

Ans: c



PYQ Jan 2021

From a histogram one cannot compute the approximate value of

- a. Mode
- b. SD
- c. Median
- d. Mean

Ans: b

PYQ Jul 2021

_____ means separating items according to similar characteristics grouping them into various classes

- a. Classification
- b. Editing
- c. Separation
- d. Tabulation

Ans: a

PYQ Jul 2021

In graphical re-presentation of data, ideographs are also called as

- a. Pictographs
- b. Asymmetry Graphs
- c. Symmetry Graphs
- d. Pictograms

Ans: d

PYQ Jun 2022

Which of the following does not form characteristics in dividing the data?

- a. Number of auditors auditing the accounts
- b. Number of files audited by auditor
- c. Number of files audited less than 3, less than 5, less than 10
- d. Number of files audited are very less, moderate, very large

Ans: d

PYQ Jun 2022

Which one is research data?

- a. Discrete and Continuous
- b. Qualitative and Quantitative
- c. Processed and Unprocessed
- d. Organized and Unorganized

Ans: b

MTP Mar 2021

Histogram is used for the presentation of

- a. Time Series
- b. Continuous Frequency Series
- c. Discrete Series
- d. Individual Series

Ans: b

MTP Mar 2021

The difference between upper limit and lower limit of a class is called as

- a. Class Interval
- b. Class Boundaries
- c. Mid-Value
- d. Frequency

Ans: a



Measure of Central Tendency and Dispersion

PYQ Jun 2024

Which of the following measure of central tendency will be unaffected if the lowest and highest observation are removed?

- a. Mean
- c. Median
- b. Mode
- d. Range

Ans: c

PYQ Jun 2024

According to the empirical rule, if the data form a “bell-shaped” distribution, then the maximum and minimum frequencies occur at mid and ends respectively

- a. Middle, left end
- b. Middle, right end
- c. End, middle
- d. Middle, ends

Ans: d

PYQ Jun 2019

Which of the following is a positional average?

- a. Median
- b. GM
- c. HM
- d. AM

Ans: a

PYQ Nov 2019

The deviations are minimum when taken from

- a. Mean
- b. Median
- c. Mode
- d. None

Ans: b

PYQ Nov 2020

50th Percentile is equal to

- a. Median
- b. Mode
- c. Mean
- d. None

Ans: a

PYQ Nov 2020

Data for 10 matches are given, which of the following cannot be obtained?

- a. Least Score
- b. Highest Score
- c. Best Score
- d. Median Score

Ans: c

PYQ Jan 2021



From the record on sizes of shoes sold in a shop, one can compute the following to determine the most preferred shoe size

- a. Mean
- b. Median
- c. Mode
- d. Range

Ans: c

PYQ Dec 2021

For the data having odd number of observations, the difference between the first and the middle value is equal to the difference between last and the middle value. Then the middle value is equal to

- a. Half of Range
- b. Half of SD
- c. Mode
- d. Mean

Ans: d

PYQ Dec 2021

One hundred participants expressed their opinion on recommending a new product to their friends using the attributes: most unlikely, not sure, likely, most likely. The appropriate measure of central tendency that can be used here is

- a. Mean
- b. Mode
- c. GM
- d. HM

Ans: b

PYQ Dec 2021

Along a road there are 5 buildings of apartments, marked as 1, 2, 3, 4, 5. Number of people residing in each building is available. A bus stop is to be setup near one of the buildings so that the total distance walked by the residents to the bus stop from their buildings must be kept minimum. One must consider involving _____ to find the position of bus stop.

- a. Mean
- b. Median
- c. Mode
- d. Weighted Mean

Ans: b

PYQ Jun 2022

When each value doesn't have equal importance then we consider

- a. AM
- b. GM
- c. HM
- d. Weighted AM

Ans: d

MTP Oct 2021

Pooled Mean is also called as

- a. Mean
- b. GM
- c. Grouped Mean
- d. None

Ans: c

MTP Mar 2021



The sum of the squares of deviations of a set of observations has the smallest value, when deviations are taken from

- a. AM
- b. GM
- c. HM
- d. None

Ans: a

MTP Mar 2021

GM is better when

- a. Ratios and Percentages are given
- b. Interval of scale are given
- c. Both
- d. A or B

Ans: a

MTP Mar 2021

Which of the following central tendency cannot be obtained graphically

- a. Mean
- b. Median
- c. Mode
- d. Quartile

Ans: a

MTP Apr 2021

Inter-quartile range is _____ of QD

- a. Half
- b. Double
- c. Triple
- d. Equal

Ans: b

Correlation and Regression

PYQ Jun 2024

Spearman's correlation Coefficient is used to check

- a. The scattering of the data
- b. The relationship in variables
- c. The median of a data
- d. The range of a data

Ans: b

PYQ May 2018

In the method of concurrent deviations, only the direction of change in the variables are considered to measure

- a. Coefficient of SD
- b. Coefficient of Regression
- c. Coefficient of Correlation
- d. None

Ans: c

PYQ May 2018

Correlation Coefficient is _____ of unit of measurement

- a. Dependent
- b. Independent
- c. Both
- d. None

Ans: b



PYQ May 2018

Rank Correlation coefficient lies between

- a. 0 to 1
 c. -1 to 0
 b. -1 to +1 inclusive
 d. Both

Ans: b

PYQ Jun 2019

AM of regression coefficients is

- a. Equal to r
 c. Half of r
 b. Greater than or equal to r
 d. None

Ans: b

MTP Nov 2021

The coefficients of correlation between two variables x and y is the simple _____ of two regression coefficients.

- a. Harmonic Mean
 b. Arithmetic Mean
 c. Geometric Mean
 d. None

Ans: c

PYQ Jul 2021

If the sum product of the deviations of X and Y from their means is zero the correlation coefficient between X and Y is

- a. Zero
 c. Negative
 b. Positive
 d. 10

Ans: a

$$\sum (x - \bar{x})(y - \bar{y}) = 0$$

$$\text{cov} = 0$$

$$r = 0$$

PYQ Jun 2022

Karl Pearson's correlation coefficient method is used for

- a. Any Data
 c. Grouped Data
 b. Scattered Data
 d. Ungrouped Data

Ans: d

PYQ Jun 2022Which of the following is used to find the correlation between two qualitative characteristics

- a. Karl Pearson
 c. Concurrent Deviation
 b. Spearman Rank Correlation
 d. Scatter Diagram

Ans: b

MTP Nov 2021If $r=0$, regression lines are:

- a. Perpendicular
 c. They coincide
 b. Parallel
 d. Cannot be determined

Ans: a



Index Numbers**PYQ Jun 2024**

The average of base year and current years is used in _____ index number

- a. Fisher's Ideal index
- b. Laspeyres index
- c. Paasche's index
- d. Marshall-Edgeworth index

Ans: d

PYQ Jun 2022

Laspeyres's index number is based on?

- a. Last year weight
- b. Present year weight
- c. Last year value
- d. Present year value

Ans: a

PYQ Jan 2021

The cost-of-living index is always

- a. Price Index Number
- b. Quantity Index Number
- c. Weighted Price Index Number
- d. Value Index Number

Ans: c

PYQ Jan 2021

When the quantities of all commodities are changing in the same ratio, then the index numbers due to Laspeyres's Index and Paasche's Index will be

- a. Equal
- b. Unequal
- c. Reciprocal of Marshall Edgeworth Index
- d. Reciprocal of Fisher's Index

Ans: a

PYQ Dec 2021

Index numbers are not helpful in

- a. Framing Economic Policies
- b. Revealing Trend
- c. Forecasting
- d. Identifying Errors

Ans: d

PYQ Jun 2022

GM is used in which method of Index Numbers



- a. Laspeyres's
- c. Fisher's
- b. Paasche's
- d. None

Ans: c

PYQ Dec 2022

In price index, when a new commodity is required to be added, which of the following is used?

- a. Shifted Price Index
- c. Deflating Price Index
- b. Splicing Price Index
- d. Value of Price Index

Ans: ~~c~~

PYQ Dec 2022

Which of the following Index Measures the change from month to month in the cost of a representative basket of goods and services of the type which are bought by a typical household?

- a. Retail Price Index
- c. Fisher's Price Index
- b. Laspeyres's Price Index
- d. Paasche's Price Index

Ans: a

