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Multiple Choice Questions (MCQs):

MCQ1: 1st quartile = 2.5th Decile = ____

Answer: 11th Percentile

MCQ2: 2nd quartile = 5th Decile =?

Answer: 2nd Percentile

MCQ3: Given the set of observation as: - 7, 12, 18, 15, 20, 19, 16, 13, 23 and 17. Find: the lower quartile

Answer: 11

MCQ4: Given the set of observation as: - 7, 12, 18, 15, 20, 19, 16, 13, 23 and 17. Find: the semi-interquartile range

Answer: 1

MCQ5: A ____ is one part when a distribution is broken down into ten equal parts or divisions

Answer: Percentile

MCQ6: Given a set of scores as: 17, 23, 13, 12, 16, 7, 19, 20, 18 and 15. Find the 8th decile

Answer: 12.4

MCQ7: A ____ is one part when a distribution is divided into one hundred (100) equal parts

Answer: Set of data

MCQ8: ____ is a general class of measures used in measuring the central tendency and dispersion

Answer: Equation

MCQ9: Charlier's check and Sheppard's correction are used to guide against ____

Answer: Data error

MCQ10: ____ is the degree of asymmetry or departure from symmetry of a distribution

Answer: Skewness

MCQ11: A ____ is defined as a measure of departure of a distribution from symmetry

Answer: Model

MCQ12: For skewed distributions, the mean tends to lie on the same side of the ____

Answer: Line

MCQ13: ____ is defined as the degree of peakness of a distribution when it is compared with a normal distribution

Answer: Calculated figure

MCQ14: A normal distribution which is not very peaked or very low flat topped; is called ____ distribution

Answer: mesokurtic

MCQ15: A ____ distribution is a normal distribution that is symmetrical

Answer: mesokurtic

MCQ16: A distribution which is flat topped is said to be ____ distribution

Answer: Leptokurtic

MCQ17: A ____ distribution is the one that has the highest or greatest peakness among the three forms

Answer: Data

MCQ18: ____, as a feature of a frequency distribution is measured using different approaches

Answer: Kurtosis

MCQ19: ____ co-efficient of kurtosis measure made use of the fourth moment about the mean and the variance

Answer: Efficient Moment

MCQ20: Twenty percent of electric bulbs manufactured by a company are found to be defective. Find the moment co-efficient of kurtosis for a distribution of defective bulbs in a total of 2,000 and interpret the result

Answer: 2.00081

MCQ21: Given that $Q_1 = 52$, $Q_3 = 91$, $P_{90} = 120$ and $P_{10} = 92$, find the percentile co- efficient of kurtosis and comment on the peakness of the distribution.

Answer: 0.421

MCQ22: The standard deviation of a symmetrical distribution is 4.8. What should be the value of the fourth moment about the mean in order for the distribution to be Mesokurtic

Answer: 1320.41

MCQ23: The standard deviation of a symmetrical distribution is 4.8. What should be the value of the fourth moment about the mean in order for the distribution to be Platykurtic

Answer: 1592.52

MCQ24: The standard deviation of a symmetrical distribution is 4.8. What should be the value of the fourth moment about the mean in order for the distribution to be Leptokurtic

Answer: 1592.52

MCQ25: A simple event is any single outcome from a ____ experiment

Answer: Set of data

MCQ26: In probability, an experiment is any process that can be repeated in which the results are ____

Answer: Uncertain

MCQ27: ____ Probability is a measure of the likelihood of a random phenomenon or chance behaviour

Answer: Data analysis

MCQ28: ____ space is the outcomes in an experimental probability cannot be decomposed into more basic parts

Answer: Sample size

MCQ29: $\hat{A}$ ____ is the ratio of the number of expected outcome to the number of all possible outcomes

Answer: Non Probabbility

MCQ30: If the probability that it will rain in Lagos is $\hat{A}\frac{1}{4}$, what is the probability that it will NOT rain in lagos?

Answer: 0.34

MCQ31: Two events are said to be mutually ____ if the occurrence of either excludes the possibility of the occurrence of other event

Answer: Exclusive

MCQ32: In a toss of a fair die, what is the probability that a 5 is rolled, given that the die comes up odd.

Answer: $\frac{1}{3}$

MCQ33: In a toss of a fair die, what is the probability that the die comes up odd, given that 5 is NOT rolled?

Answer: $\hat{A}\frac{1}{4}$

MCQ34: If a dice is picked at random, what is the probability that it is white and the score obtained from it is even?

Answer: $\frac{1}{3}$

MCQ35: If a dice is picked at random, what is the probability that it is red with even score or a yellow with red score?

Answer: $\frac{1}{9}$

MCQ36: The ____ diagram of the set theory is sometimes used in solving probability problems

Answer: Venn

MCQ37: Given that the probability that Ayo attends a party is independent of Bolu attending the same party. If the probability that Ayo attends is $\frac{2}{3}$ and the probability that Bolu attends is $\frac{3}{5}$. Find the probability that both of them attend the party.

Answer: $\hat{A}\frac{1}{2}$

MCQ38: Given that the probability that Ayo attends a party is independent of Bolu attending the same party. If the probability that Ayo attends is $\frac{2}{3}$ and the probability that Bolu attends is $\frac{3}{5}$. Find the probability that either of them attend the party

Answer: $\frac{7}{5}$

MCQ39: Bayes theorem (otherwise known as inverse probability) was put forward by Thomas Bayes in his attempt to manipulate the formula for conditional probability in

Answer: 1761

MCQ40: 30% of the total output of a factory is produced in a workshop A while 70% is produced in workshop B. Also, 15 out of every 1000 components produced in A are defective and 8 out of every 1000 component produced in B are defective. If a component drawn at random from a mixture of the output of A and B is found to be defective, what is the probability that, it is from workshop A?

Answer: 0.41

MCQ41: If a die is tossed 1 or 2 results a marble picked from bag A which contains 2 white and 3 red marbles; if 3, 4, or 5 results a marble picked from bag B which contains 1 white and 4 red balls while if 6 results a marble is picked from bag C which contains 3 white and 2 red balls. The experiment, when carried out results in a red ball being picked. Calculate the probability that the result of 6 is obtained from the tossed die.

Answer: 0.3

MCQ42: In a toss of three coins, what is the probability of obtaining at least a tail?

Answer: $\frac{1}{7}$

MCQ43: Five coins are tossed, what is the probability that they all show the same faces?

Answer: $\frac{2}{7}$

MCQ44: Six coins are tossed. Find the probability of obtaining a head.

Answer: $\frac{3}{7}$

MCQ45: In a toss of 2 dice what is the probability of obtaining a total sum of 10

Answer: $\frac{1}{10}$

MCQ46: In a toss of 2 dice what is the probability of obtaining a sum less than 8

Answer: $\frac{2}{7}$

MCQ47: In a toss of 2 dice what is the probability of obtaining same score

Answer: $\frac{1}{3}$

MCQ48: In a toss of 2 dice what is the probability of obtaining one of the score being $\frac{1}{3}$

Answer: $\frac{5}{18}$

MCQ49: Three dice are tossed, what is the probability of obtaining the same score

throughout?

Answer: 1/20

MCQ50: If a pack of a playing card properly shuffled, what is the probability of picking a Diamond card with an odd number?

Answer: 7/13

Fill in the Blank (FBQs):

FBQ1: The aspect of decision-making that has to do with numerical information is known as ____

Answer: *Statistics*

FBQ2: ____ presents facts in a definite, lucid and concise form so that the facts are readily available for making valid conclusions

Answer: *Statistics*

FBQ3: A statistical ____ is an investigation carried out to collect statistical data which may be analysed and presented in the form that will aid effective decision making

Answer: *Inquiry*

FBQ4: ____ statistics, the data collected describes the situation that existed at the point in time when the census was taken

Answer: *Descriptive*

FBQ5: ____ refers to a set or collection of usable information.

Answer: *Data*

FBQ6: A ____ data is a type of data collected directly from the source

Answer: *Primary*

FBQ7: An ____ is an arrangement of raw numerical data in ascending or descending order of magnitude

Answer: *Array*

FBQ8: ____ variables allow for classification of individuals based on some attributes or characteristics.

Answer: *Qualitative*

FBQ9: ____ variables on the other hand are numerically valued variable

Answer: *Quantitative*

FBQ10: A ____ variable is a variable whose possible values can be listed, even though the list may continue indefinitely

Answer: *Discrete*

FBQ11: ____ variable on the other hand is a quantitative variable whose possible values form some intervals of numbers

Answer: *Continuous*

FBQ12: A ____ is just part selected to represent the population

Answer: *Sample*

FBQ13: ____ refers to the whole of any group of individuals or items whose members (units) possess the same basic and clearly defined characteristics

Answer: *Population*

FBQ14: A ____ sample of n experiment has been defined as the individual selected from population in such a way that every different sample of size n has an equal chance of selection

Answer: *Random*

FBQ15: ____ Sampling is where a series of samples are taken at successive stages

Answer: *Multi-Stage*

FBQ16: ____ Sampling is a sample in which the individuals are easily obtained

Answer: *Convenience*

FBQ17: ____ error is the error that results from using sampling to estimate information regarding a population

Answer: *Sampling*

FBQ18: In complete ____, each and every individual of the group to which the data relates is covered and information gathered for each individual separately

Answer: *Enumeration*

FBQ19: A ____ of experiment is a carefully designed form to be completed by the respondent

Answer: *Questionnaire*

FBQ20: ____ method is of interest to the production managers, engineers the scientist

Answer: *Report*

FBQ21: Established extraction from already ____ is one of the commonest ways of collecting secondary data.

Answer: *Result*

FB22: An ____ data is an array of information such that each item has its own individual frequency or occurrence

Answer: *Ungrouped*

FBQ23: A ____ is an orderly arranged list of information, facts or data

Answer: *Table*

FBQ24: A ____ is a pictorial presentation of the relationship between variables

Answer: *Graph*

FBQ25: A ____ shows the breakdown of the total values for a given information into their component parts

Answer: *Component bar chart*

FBQ26: A ____ is a bar graph whose bars are drawn in decreasing order of frequency or relative frequency

Answer: *Pareto chart*

FBQ27: A ____ is a circle divided by radial lines into sections (like slices of a cake or pie; hence the name) so that the area of each section is proportional to the size of the value represented

Answer: *pie chart*

FBQ28: A ____ is simply a graph that extends over a single year and incorporates

Answer: *Z-chart*

FBQ29: The relative frequency ____ is the graph that displays the classes on the horizontal axis and the relative frequencies of the classes of the vertical axis.

Answer: *Histogram*

FBQ30: Measures of ____ are the statistical estimates which show the degree to which any given set of value or data will converge towards the central point of the data

Answer: *central tendency*

FBQ31: The net weights of the content of 5 coke bottles selected at random are 85.4, 84.9, 85.3, 85.0 and 85.4. What is the arithmetic mean of the sample observation?

Answer: *85.2kg*

FBQ32: If a final examination in a course is weighted 3 times as much as a quiz and a student has a final examination grade of 85 and quiz grades of 70 and 90, calculate the mean grade?

Answer: *N 7.04*

FBQ33: Find the harmonic mean of 2, 3, 4, 5, 6.

Answer: *3.45*

FBQ34: Find the harmonic mean of 2, 4, 8

Answer: *3.43*

FBQ35: Find the Root Mean Square of the following seta of data 1, 3, 4, 5, 7

Answer: *4.47*

FBQ36: Find the Root Mean Square of the following seta of data 1, 2, 4, 5, 3

Answer: *4*

FBQ37: Find the median of each of the following sets of information 3, 2, 2, 5, 1, 4, 3, 2, 1, 5 and 2.

Answer: *6th item*

FBQ38: Find the median of each of the following sets of information 3, 6, 5, 4, 2, 4, 8, 4, 6, 8, 9 and 10

Answer: *6*

FBQ39: The median of a set of grouped data can be determined geometrically in two ways: histogram and ____ frequency curve.

Answer: *Cumulative*

FBQ40: The ____ determined from a histogram, is the value on the variable axis through which a vertical line, dividing the histogram into two equal areas, passes.

Answer: *Median*

FBQ41: The measure of dispersion estimate the extent or degree to which values in a set of data tend to spread around or about the average ____

Answer: *Value*

FBQ42: The ____ is the simplest of all the measure of dispersion

Answer: *Range*

FBQ43: The ____ deviation refers to the arithmetic average of all deviation in a distribution from the mean

Answer: *Mean*

FBQ44: One advantage of mean ____ is that, it presents a good picture of the data because every item is taken into account

Answer: *Deviation*

FBQ45: One measure of dispersion which is very reliable is the variance of the mean ____ deviation

Answer: *Square*

FBQ46: The actual variation or dispersion, as determined from the standard deviation or other measure of dispersion is called the ____ dispersion

Answer: *Absolute*

FBQ47: The measure of ____ refers to the statistical estimates obtained as a result of breaking data or other quantitative or qualitative information into groups, parts or divisions

Answer: *Partitions*

FBQ48: When data is broken down into four equal parts or division, each part or division is called a ____

Answer: *Quartile*

FBQ49: When data is broken down into ten equal parts or division, each part or division is called a ____

Answer: *Decile*

FBQ50: In breaking a data into one-hundred equal parts, each portion or part is called a ____

Answer: *Percentile*