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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: \_\_\_\_ 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: \_\_\_ 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  $\frac{1}{4}$ , 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:  $\frac{1}{4}$

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:  $\frac{1}{2}$

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:  $1/10$

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

Answer:  $2/7$

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

Answer:  $1/3$

MCQ48: In a toss of 2 dice what is the probability of obtaining one of the score being '3'

Answer:  $5/18$

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\*

FBQ22: 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 set of data 1, 3, 4, 5, 7  
Answer: \*4.47\*

FBQ36: Find the Root Mean Square of the following set 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\*