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FBQ1: $\qquad$ estimate is obtained when a range of values is used to estimate a population parameter
Answer: Interval
FBQ2: The two statistical hypotheses for each situation are null hypothesis and the hypothesis
Answer: alternative.
FBQ3: $\qquad$ is a statistical hypothesis that states that there is no difference between a parameter and a specific value, or that there is no difference between two parameters.

Answer: Null hypothesis
FBQ4: The $\qquad$ is the degree of difference between sample mean (x) and population mean ( $1 / 1 / 4 \mathrm{Ho}$ ) that leads to the rejection of the null hypothesis.
Answer: significance difference
FBQ5: In hypothesis testing situation, there are $\qquad$ possible outcomes Answer: four

FBQ6: $\qquad$ error occurs if you do not reject the null hypothesis when it is false or when a false hypothesis is erroneously accepted as true.
Answer: Type II
FBQ7: When the population standard deviation is unknown and the sample size is less than 30, the type of test usually used is $\qquad$ Answer: t-test

FBQ8: By means of $\qquad$ test it is possible to test the hypothesis that the two variables are independent
Answer: chi square
FBQ9: $\qquad$ is the general method for testing compatibility based on a measure of the extent to which the observed and expected frequencies agree Answer: Chi-square

FBQ10: $\qquad$ are areas of inferential statistics which determine whether a relationship between two or more numerical or quantitative variables exists. Answer: Correlation and regression

FBQ11: The symbol use to represents samples correlation coefficient is $\qquad$ Answer: r

FBQ12: A regression line sometimes called the $\qquad$ is a line that best fits the point in a scatter diagram, and it always passes through the point ( $\mathrm{X}, \mathrm{Y}$ ). Answer: least-square line

FBQ13: In the general equation for a fitted regression line $Y=a+b X, Y$ is equal to $\qquad$ on the vertical axis.

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Answer: Dependent variable
FBQ14: A $\qquad$ is a graph of the ordered pairs ( $\mathrm{x}, \mathrm{y}$ ) of numbers consisting of the independent variable X and the dependent variable Y .
Answer: scatter diagram
FBQ15: $\qquad$ correlation is when a change in one variable is exactly matched by a change in the other variable
Answer: Perfect
FBQ16: The full meaning of SPSS is $\qquad$ Â
Answer: Statistical Package for Social Sciences
FBQ17: The type of test that is used if the population in a particular hypothesis-testing situation is not normally distributed is $\qquad$ $\hat{A}$ Answer: Non-parametric tests

FBQ18: Â A stratified sample is a sample obtained by dividing the population into subgroups, called A
Answer: Strata
FBQ19: In measuring the height of some rabbit, the mean was 76 , and the standard deviation was 6 , calculate the standard height of rabbits having a height of 112 Answer: 6

FBQ20: The width of the termite house is normally distributed with mean 3 cm and standard deviation 0.14 . What width value separates the widest $10 \%$ of all such house from the other $90 \%$ ?
Answer: 3.179
FBQ21: A conjecture about a population parameter which may or may not be true is called $\qquad$ .
Answer: Hypothesis
FBQ22: The area in the normal distribution diagram that indicate that a null hypothesis should be rejected is called the $\qquad$ region.
Answer: critical rejection
FBQ23: The risk of rejecting a true hypothesis is known as $\qquad$ error Answer: Type 1

FBQ24: When a change in one variable is to a small extent matched by a change in the other, this is called $\qquad$ correlation
Answer: Low
FBQ25: If the probability of a defective syringe is 0.4 . The mean for the distribution of defective syringes in a total of 500 will $\qquad$ Answer: 200

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FBQ26: A committee of 5 doctors can be chosen from 9 doctors in $\qquad$ ways
Answer: 126
FBQ27: We have a $\qquad$ correlation when an increase in one variable is associated to a greater or lesser extent with a decrease in the other
Answer: negative
FBQ28: $\qquad$ is the numeric location of the center of the class
Answer: Midpoint
FBQ29: $\qquad$ is a discrete probability distribution that is useful when n is larger and $p$ is small and when the independent variables occur over a period of time. Answer: Poisson distribution

FBQ30: $\qquad$ is a special probability distribution that describes the distribution of probabilities when there are only two possible outcomes for each trial of an experiment. Answer: Binomial distribution

FBQ31: Distribution that has no specific beginning or ending value is called $\qquad$ distribution
Answer: open ended
FBQ32: A scatter of related values, such as the assortment of weights in a group of chicken is called
Answer: distribution
FBQ33: $\qquad$ is simply a complete listing of all possible outcomes of an experiment, together with their probabilities.
Answer: Probability distribution
FBQ34: The normal distribution is defined by just two statistics, name them
Answer: mean and standard deviation
FBQ35: $\qquad$ is a particular pattern of variation of numbers around the mean Answer: Normal distribution

MCQ1: The mean yield of yam following the fertilizer treatment from 10 plots was 176. 1 kg with standard deviation 3.88 . What is the $95 \%$ confidence limit for the mean yield of the yam?
Answer: (173.32, 178.88)
MCQ2: If $3 \%$ of the yam tuber harvest from a portion of farmland get rotten within 5 weeks of harvest, find the probability that in a sample of 100 tubers less than or equal to 2 tubers will be defective
Answer: 0.4232
MCQ3: Adult males have normally distributed heights with mean equal to 70 inches and standard deviation equal to 3 inches, what percentage are between 68 and 73 in? Answer: 58.89\%

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MCQ4: Which of the following is not true about a binomial distribution?
Answer: The outcome of a new trial can depend on the trial of the previous
MCQ5: The width of the termite house is normally distributed with mean 3cm and standard deviation 0.14 . What width value separates the widest $10 \%$ of all such house from the other $90 \%$ ?
Answer: 3.179
MCQ6: If a normal distribution has $u=30$ and $\operatorname{sd}(a)=5$, what is the 6 th percentile of the distribution?
Answer: 22.225
MCQ7: For a certain breed of monkey in a zoo, the time to start eating when food is supply is normally distributed with mean 1.25 min and standard deviation of 0.46 min . what is the probability that the time to start eating is between 1 min and 1.75 min Answer: 0.5675

MCQ8: Evaluate $P(-0.38 \&|t ;=z \&| t ;=1.25) \hat{A}$
Answer: $0.5424 \hat{A}$
MCQ9: Â Which of the following is not true about a normal distribution curve?
Answer: Most items on the curve are clustered around the variance
MCQ10: In an experiment, the class with is 9 , how many classes can be formed if the range of the set of data is 270 .
Answer: 30
MCQ11: A biologist discover that the proportion of 5 microorganisms in pond are $\mathrm{V}=24$, $\mathrm{W}=36, \mathrm{X}=15, \mathrm{Y}=27, \mathrm{Z}=38$, determine the relative frequency of organism X
Answer: 10.71
MCQ12: Which of the following is true of the projection of two vectors $X$ and $Y$ ?
Answer: The projection of $X$ on $Y$ equal the scalar product of $X$. $y$ where $y$ is a unit vector in the direction of $Y$

MCQ13: Statistics that deals with using a conclusion deduce from a smaller sample to make conclusion on the entire larger population is defined as
Answer: Inferential
MCQ14: The heights in inches of tomato plants in a garden are shown below. If the data is organized into a frequency distribution with six classes, what will be the class width? 1820181824101512293613201824181616207
Answer: 5
MCQ15: Â Information in the form of numerical figure is termed $\qquad$ Â
Answer: data
MCQ16: In the construction of a frequency, which of the following is not important?

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Answer: Give gaps in the classes to give room for lack of values.
MCQ17: Which of these is not a reason for constructing a frequency distribution?
Answer: So that drawing of charts and graphs may not be necessary
MCQ18: Which of the following is not a source of variation in a given population? Answer: Type of habitat

MCQ19: Which of these is not frequently used as confidence levels employed in interval estimation?
Answer: 98 percent
MCQ20: The critical or rejection region is
Answer: the range of values of the test values that indicates that there is significant difference and that the null hypothesis should be rejected

MCQ21: In poultry farming, the daily demand for water is normally distributed with a mean of 4000 litres and a standard deviation of 400 litres, if $z$-score of demand for a given day is 1.3 , how many litres of water is the demand for the day?
Answer: 4520 litres
MCQ22: The seven pairs of values ( $x, y$ ) below shows the number of absences, $x$, in a BIO206 tutorial at Abuja study centre and the final exam grade, $y$, for 7 students. Find the correlation coefficient between $x$ and $y(1,95),(0,90),(2,90),(6,55),(4,70),(3$, $80)$, $(3,85)$
Answer: $r=-0.93$
MCQ23: The seven pairs of values ( $\mathrm{x}, \mathrm{y}$ ) below shows the number of absences, x , in a BIO206 tutorial at Abuja study centre and the final exam grade, y , for 7 students. Find the equation of regression between $x$ and $y(1,95),(0,90),(2,90),(6,55),(4,70),(3$, 80), $(3,85)$

Answer: y = 3.56x-9.57
MCQ24: Weight measurement is conducted on new harvest of Watermelon, Thirty ( $n=30$ ) randomly selected watermelon are carefully weigh and the weight recorded, the mean weight of the sample is 28.6 g and the sample standard deviation is 2.2 g .
Estimate a $95 \%$ confidence interval for the mean weight in the whole watermelon harvest
Answer: $(27.81,29.39)$
MCQ25: Find the probability that seven of 10 persons will recover from a tropical disease if we can assume independence and the probability is 0.80 that any one of them will recover from the disease
Answer: 0.2
MCQ26: The average number of customers arriving on any one day at poultry farming is 12 , what is the probability that on a given day fewer than 9 customers will arrive at the farm?
Answer: 0.16

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MCQ27: Ten percent of the tools produced in a certain manufacturing process turn out to be defective. Find the probability that in a sample of 10 tools chosen at random exactly 2 will be defective by using poisson approximation to binomial distribution Answer: 0.18

MCQ28: Before applying a statistics in a research, which of the following statement is incorrect in what a researcher need to know?
Answer: Un-clarification of what to be achieved
MCQ29: If the probability of a defective syringe is $2 / 3$. find the standard deviation for the distribution of defective syringes in a total of 729
Answer: 12.73
MCQ30: Which of the following is not an experimentation principle?
Answer: diversion
MCQ31: A basket contains 5 oranges, 4 Mangoes, 3 Apples and 2 guavas. If 4 fruits are drawn at random, determine the probability that 1 of each fruit is drawn Answer: 0.12

MCQ32: Find the probability that in five tosses of a fair die a 5 appears at no time Answer: 3125/7776

MCQ33: A Biologist discovered that the proportion of 5 micro organisms in pond are $V=24, W=36, X=15, Y=27, Z=38$, determine the relative frequency of organism $X$ Answer: 10.71

MCQ34: When do we have a negative correlation?
Answer: when an increase in one variable is associated to a greater or lesser extent with a decrease in the other

MCQ35: In a poultry farm, the daily demand for water is normally distributed with a mean of 4000 litres and a standard deviation of 400 litres, if $z$-score of demand for a given day is 1.3 . How many litres of water is the demand for the day? Answer: 4520 litres

