Question MCQ1: The two possible values of each in a Bernoulli process Xi are often called?

Answer: "success" and "failure"

Question MCQ2: The negative Binomial variables may be interpreted as what?

Answer: Random waiting times

Question MCQ3: The probability tossing a coin once and get a head is?

Answer: 0.5

Question MCQ4: The total probability for any event is?

Answer: 1

Question MCQ5: If a random variable X takes only integral values it can be called?

Answer: Discrete probability distribution.

Question MCQ6: The normal distribution was first discovered by English Mathematician

Answer: De-voire

Question MCQ7: The following are properties of normal distribution curve except

Answer: The curve is not symmetric about a vertical axis

Question MCQ8: A random variable X has normal Distribution, and it is referred to as

Answer: a normal random variable

Question MCQ9: Using normal tables, find the values of the following probabilities: $P(-1.50 \le z \le 2.50)$

Answer: 0.9270

Question MCQ10: Given a normal distribution with mean of 230 and standard deviation of 20, what is the probability that an observation from

this population is: Greater than 280

Answer: 2.50

Question MCQ11: We know that for a binomial variate X with parameter n and p is

Answer: E(X) = np and Var(X) = npq

Ouestion MCO12: Poisson distribution was derived in what year?

Answer: 1837

Question MCQ13: Poisson distribution may be obtained as a limiting case of which distribution?

Answer: Binomial probability distribution

Question MCQ14: The mean number of misprints per page in a book is 1.2. What is the probability of finding on a particular page no misprints?

Answer: 0.301

Question MCQ15: A statistical hypothesis test is a method of making decisions using ?

Answer: Data from a scientific study.

Question MCQ16: The following are statistical test tools except

Answer: E â€"test

Question MCQ17: One out of the following is assumption for F-test for equality of variances.

Answer: The samples are simple random samples

Question MCQ18: Chi-square distribution test one among the following:

Answer: Goodness of fit

Ouestion MCO19: ANOVA can be how many ways?

Answer: One-way or two-way

Question MCQ20: Statistics that do not assume the data or population have any characteristic structure or parameters is called?

Answer: Non-parametric statistics

Question MCQ21: In statistics, the term non-parametric statistics has at least how many different meanings?

Answer: Two

Question MCQ22: Price and supply of a commodity is example what correlation?

Answer: Positive correlation

Question MCQ23: Rainfall and Farm yield is example what correlation?

Answer: Positive correlation

Question MCQ24: Tax rate and consumption demand is example what correlation?

Answer: Negative correlation

Question MCQ25: Karl Pearsonâ€'s coefficient of correlation isâ€'

Answer: Non-Parametric statistic

Question MCQ26: Spearmanâ€s Rank Correlation Coefficient, usually denoted by?

Answer: Ï (Rho)

Question MCQ27: A more accurate way of finding the line of best fit is through the use ofâ€!

Answer: Least square method

Question MCQ28: A simple regression model comprise of how may variables?

Answer: 2

Question MCQ29: In simple regression model how many independent variable do we have?

Answer: 1

Question MCQ30 : Y = a + bX + e. Answer: Simple regression model

Question MCQ31: In probability theory central limit theorem states that given a certain conditions the mean of a sufficiently ______ of iterates.

Answer: large number

Question MCQ32: By the law of large numbers, the sample averages converge in probability and almost surely to the expected valueâ€

Answer: $\hat{I}^{1}/_{4}$ as n \hat{a}^{\dagger} , \hat{a}^{\dagger} .

Question MCQ33: Ten unbiased coins are tossed simultaneously. Find the probability of obtaining: Exactly six heads

Answer: 0.2051

Question MCQ34: All these are types of Index Numbers except

Answer: Value added tax index number

Question MCQ35: Below are not problems in the construction of Index Numbers except

Answer: Choice of formula

Question MCQ36: Below ate methods of constructing index numbers except

Answer: Simple aggregate

Question MCQ37: One of these is not a weighted Aggregate method

Answer: Karl Pearson's Price Index

Question MCQ38: Below are Uses of Index Number except

Answer: Use to measure sick people

Question MCQ39: Data can be classified into two major sources from which they are obtained

Answer: Primary and Secondary data

Question MCQ40: The following are disadvantages of primary data except

Answer: Less accurate

Question MCQ41: The following are advantages secondary data except

Answer: Accurate and Reliable

Question MCQ42: Data are also classified based on the form except

Answer: Primary Data

Question MCQ43: combine the features of cross-sectional and time-series data. Answer: Panel Data
Question MCQ44 : The Sources of Secondary data are as follows except Answer: Household Survey
Question MCQ45: Below are some publications in Nigeria except Answer: Daily Consumption of Beans
Question MCQ46: Researchers collect data in order to test and to provide empirical support for explanations and predictions. Answer: Hypotheses
Question MCQ47 : Sub-set of population is called? Answer: Sample
Question MCQ48: A particular value of the population, such as the mean income or the level of formal education, is called Answer: A parameter
Question MCQ49: Below are the functions of money except Answer: Portability
Question MCQ50: To accurately estimate unknown parameters from known statistics, researchers have to effectively deal with one of these problems: Answer: The size of the sample
Question FBQ1 : A random variable is the simplest random variable. Answer: Bernoulli
Question FBQ2 : A Bernoulli process is a or infinite sequence of binary random variable Answer: finite
Question FBQ3 : Several random variables and probability distributions beside the itself may be derived from the Bernoulli process Answer: Bernoulli
Question FBQ4 : The negative Binomial variables may be interpreted as waiting times Answer: random
Question FBQ5 : A Bernoulli random variable is one which has only and 1 as possible values. Answer: 0
Question FBQ6 : A Bernoulli random variable is the simplest random variable. It models an experiment in which there are only two outcomes. Generically, we say that $X=1$ is a success and $X=0$ is a failure. We say that p is theâ \in - probability. Answer: Success
Question FBQ7: the probability of success is constant for each trial. Then $q = 1$ - p , is the probability of failure in any trial. Answer: p
Question FBQ8 : $P(r) = P(X =)$ Answer: r
Question FBQ9:
Since these probabilities are the successive terms in the Binomial expansion $(q + p)n$, it is called the distribution Answer: Binomial
Question FBQ10 : Total probability is Answer: 1
Question FBQ11 : The normal distribution with is referred to as the standard distribution. Answer: normal
Question FBQ12 : If X has a normal distribution with the of $\hat{I}^{1}/_{4}$ and the deviation $_{0}$, then is the standard normal distribution, Answer: mean
Ouestion FBO13: Poisson distribution may be obtained as a limiting case of probability distribution under the following conditions

Answer: binomial
Question FBQ14: The <i>critical region</i> of a hypothesis test is the set of all outcomes which cause the null hypothesis to be rejected in favour of the hypothesis . Answer: alternative
Question FBQ15 : Statistical hypothesis testing is sometimes calleddata analysis Answer: confirmatory
Question FBQ16: Common test Statistics are; t-test, z-test, chi-square test and f-test which is sometimes referred to as analysis of test Answer: variance
Question FBQ17: <i>t</i> -test for the significance of single mean, population variance being unknown. True or False?Answer: True
Question FBQ18 : One of the assumptions for Student's test: The parent population from which the sample is drawn is not normal. True or False Answer: False
Question FBQ19: The sampling distribution of F-statistics does not involve any population parameters and depends only on the degrees of freedom $n1$ and $n2$. True or False Answer: True
Question FBQ20: of of fit and is used to test if the deviation between observation Answer: goodness
Question FBQ21 : Under the null hypothesis that there is no significant difference between the observed and the values. Answer: hypothetical
Question FBQ22 : Karl proved that the statistic†Answer: Pearson
Question FBQ23: In statistics, the term non-parametric statistics refers to statistics that do not assume the data or population have any characteristic structure or Answer: parameters
Question FBQ24: Non-parametric models differ from parametric models in that the model structure is not specifieda but is instead determined from data. Answer: priori
Question FBQ25 : The most frequently used tests include Kruskal one-way analysis of variance by ranks Answer: Wallis
Question FBQ26 : Spearman's correlation coefficient: measures statistical dependence between two variables using a monotonic function Answer: Rank
Question FBQ27: signed-rank test: tests whether matched pair samples are drawn from populations with different mean ranks Answer: Wilcoxon
Question FBQ28 : Suppose we are interested in testing Ho: $P(+) = P(-) H1$: $P(+) \hat{a}\%$ Â Answer: $P(-)$
Question FBQ29 : Correlation provides an estimate of the relationship between measurements, without any assumption of whether one comes before the other. Answer: Two
Question FBQ30 : Correlation coefficients have a value between and +1. Answer: -1
Question FBQ31 : The correlation measures only the of linear association between two variables while regression analysis is a statistical process for estimating the relationships among variables. Answer: degree

Question FBQ32: Correlation is said to be positive when the values of two variables deviate in the opposite direction. True or False _____

Answer: False
Question FBQ33 : Correlation is said to be negative when the values of two variables deviate in the same direction. True or False Answer: False
Question FBQ34 : Mutual dependence is the situation when the phenomena under study inter-influence each other. True OR False? Answer: True
Question FBQ35 : Given two variables X and Y : If $r=+1$, there is a perfect direct relationship between Y and X . If $r=-1$, there is a perfect direct relationship between Y and X . If $r=-1$, there is a perfect direct relationship between Y and X . Answer: 0
Question FBQ36 : One of the assumptions order to use the Pearson product-moment correlation: The measures are approximately normally distributed True or False? Answer: True
Question FBQ37: In regression analysis there are types of variable Answer: two
Question FBQ38 : Typical regression model is specified in form of $Y = a + b_{\underline{\hspace{1cm}}} + e$. Answer: X
Question FBQ39: Independent Variable is the variable which influences the value of thevariable or which is used for prediction. Answer: dependent
Question FBQ40 : A more accurate way of finding the line of best fit is the least square method. True OR False? Answer: True
Question FBQ41: Central limit theorem states that given a sufficiently large sample size from a population with a finite level of variance, the mean of all samples from the same population will be approximately equal to the mean of the population. True OR False? Answer: True
Question FBQ42: Let us suppose that $Y1$, $Y2$, Yn ,, are independent and identically distributed with and finite variance $\ddot{I}f2$. Answer: Mean
Question FBQ43 :The CLT can tell us about the distribution of large sums of random variables even if the distribution of the random variables is almost Answer: Unknown
Question FBQ44: The central limit theorem applies in particular to sums of independent anddistributed discrete random variables. Answer: identically
Question FBQ45: A random orthogonal matrix is said to be distributed uniformly, if its distribution is the not normalized Haar measure on the orthogonal group $O(n, R)$. True or False? Answer: False
Question FBQ46: A linear function of a matrix M is a linear combination of its elements (with given coefficients), is the matrix of the coefficients. True or False? Answer: True
Question FBQ47 : Laspeyre's Price Index or Base year method is a Weighted Aggregate Method. True or False? Answer: True
Question FBQ48 : Fisher's Price Index – Irving Fisher advocated the geometric cross of Laspeyre's andPrice inde numbers. Answer: Paasche's
Question FBQ49: Data can be classified base on the sources from which they are obtained into primary andAnswer: Secondary

Question FBQ50 : A sample is any subset of sampling units from a population. True or False $_$? Answer: True