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MCQ1: What is the probability of any specific, infinitely long sequence of coin? Answer: zero

MCQ2: In an experiment of a single toss of a coin, the coin might come up heads with probability P and tails with probability 1-P. The experiment is called fair if,

Answer: $\mathrm{P}=0.5$
MCQ3: Find the probability of getting 5 in a single throw of a dice.
Answer: one -sixth
MCQ4: The outcome of the random experiment (trial) results in the $\qquad$ classification of events.
Answer: Dichotomous
MCQ5: Using normal tables, find the values of $\mathrm{P}(\mathrm{z} \& \mid t ; 0.50) \hat{A}$
Answer: $0.6915 \hat{A}$
MCQ6: Which is termed as the probability of failure (non-occurrence of the event) and is constant for each trial?
Answer: q = 1-p
MCQ7: What is the probability of getting heads in two coins flipps?
Answer: 0.75
MCQ8: In a normal distribution, the mode which is the point on the horizontal axis where the curve is a maximum occurs at $\qquad$ Answer: X = $\hat{1}^{1 / 4}$

MCQ9: The normal distribution was first discovered by English Mathematician De-voire in
Answer: 1733
MCQ10: In normal distribution, the curve is $\qquad$ about a vertical axis through the mean $11 / 4$
Answer: asymmetric
MCQ11: The first meaning of non-parametric covers $\qquad$ that do not rely on data belonging to any particular distribution.
Answer: techniques
MCQ12: A $\qquad$ is a succession of identical letters (or other kinds of symbol) which is preceded and followed by different letters or no letters at all. Answer: Run

MCQ13: Correlation coefficients have a value between $\qquad$
Answer: -1 and +1
MCQ14: Which of the following is not an example of negative correlation?

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Answer:
age and marriage Â Â

MCQ15: If $x$ : 12345 and y:2 5811 14, then this relationship can be expressed as

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Answer: \(y=2+3 x\)
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MCQ16: Let the variance of each Xi be Ïf2. It then follows from the Chebyshevấ $\epsilon^{\top} M_{s}$ inequality that for every number $\qquad$
Answer: 1 Î \>0
MCQ17: A Bernoulli process is a finite or infinite sequence of random variableÂ
Answer: Binary
MCQ18: A Bernoulli process is also a $\qquad$ stochastic process Â

## Â Â

Answer: discrete- time
MCQ19: The component Bernoulli variables Xi are identical and

## $\hat{A}$

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Â Â
Answer: Independent
MCQ20: The two possible values of each Xi are often called $\qquad$
Answer: "successâ€ $\square$ and "failure"
MCQ21: The total area under the curve and above the horizontal axis is equal to Â
Answer: 1
MCQ22: Ten cartons are taken at random from an automatic filling machine. The mean net weight of the 10 cartons is 11.8 kg and standard deviation is 0.15 kg . Does the sample mean differ significantly from the intended weight of 12 kg ? Note that $\hat{I} \pm=0.05 \hat{A}$ Answer: Yes

MCQ23: Given a normal distribution with mean of 230 and standard deviation of 20, what is the probability that an observation from this population is Less than 220 ?
Answer: 0.3085
MCQ24: The $\qquad$ of a hypothesis test is the set of all outcomes which cause the null hypothesis to be rejected in favour of the alternative hypothesis. Â

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Answer: critical region
MCQ25: Statistical hypothesis testing is sometimes called $\qquad$ data analysis.
Answer: Confirmatory
MCQ26: Another name for $f$-test is $\qquad$
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Answer: ANOVA
MCQ27: Two variables are said to be linearly related if they have a relationship of the form $\qquad$
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Answer: $\mathrm{y}=\mathrm{a}+\mathrm{bx}$
MCQ28: Another name for ANOVA is $\qquad$ Â
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Answer: f-test
MCQ29: One may observe a high degree of correlation between the height and intelligence in a group of people. Such correlation is called $\qquad$ correlation.
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Answer: spurious or non-senseÂ
MCQ30: $\qquad$ is not one of the methods of studying correlation
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Answer: Scatter Table method
MCQ31: Given two variables $X$ and $Y$ : If $r=-1$, there is a perfect $\qquad$ relationship between Y and X .
Answer: inverse or negative

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MCQ32: A coin is tossed thrice, so what is the probability of getting at least one tail? Answer: 0.875

MCQ33: The assumptions for Studentâ $\epsilon^{\text {TM }}$ s test do not include $\qquad$
Answer: The population standard deviation î is knownÂ
MCQ34: Prices of shares of a company on the different days in a month were found to be: $76,75,79,70,79,81,80,73,74$ and 78 . What is the mean price of the price of the shares in the month? $\hat{A}$
Answer: 76.5Â
MCQ35: F-statistic is the ratio of $\qquad$ chi-square variates divided by their respective degrees of freedom
Answer: two independent
MCQ36: Typical regression model is specified in form of $\qquad$
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Answer: $Y=a+b X+e$
MCQ37: The best fit line can be given as $\qquad$
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Â Â
Answer: $y=a+b x$
MCQ38: $\qquad$ is NOT one of the ways to evaluate the reliability of a linear regression model
Answer: the econometric confidence interval
MCQ39: A particular value of the population, such as the mean income or the level of formal education, is called a $\qquad$
Answer: parameter
MCQ40: Another name for standard error is $\qquad$
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Â Â
Answer: error margin
MCQ41: The component Bernoulli variables Xi are $\qquad$ and independent. Â Answer: identical

MCQ42: . A numerical value used as a summary measure for a sample, such as sample mean, is known as a $\qquad$ . Answer: Sample statistic $\hat{A}$

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MCQ43: The sum of the percent frequencies for all classes will always equal

## Answer: 100

MCQ44: The following data show the number of hours worked by 150 statistics students. $\hat{A}$
Number of Hours
Frequency
0-9
30
10-19
40
20-29
40
30-39
40What is the class width for this distribution?
Answer: 10
MCQ45: What is the opposite of confirmatory data analysis?
Answer: Exploratory data analysis
MCQ46: The term Analysis of Variance was introduced by Prof. R.A Fisher in 1920s to deal with problems in the analysis of $\qquad$ data.
Answer: Agronomical
MCQ47: Non-parametric methods are widely used for studying populations that take on a $\qquad$ order
Answer: ranked
MCQ48: In terms of levels of measurement, non-parametric methods result in data
Answer: ordinal
MCQ49: Spearman's rank correlation coefficient: measures statistical dependence between two variables using a $\qquad$ function
Answer: monotonic
MCQ50: The negative Binomial variables may be interpreted as $\qquad$ waiting times.
Answer: random
FBQ1: Since the calculated $F$ is less than tabulated $F$, it is not significant. Hence, Ho may be $\qquad$ at 5\% level of significance or risk level.A
Answer: Accepted Â
FBQ2: On the other hand, if calculated value of Ï $\ddagger 2$ is greater than the tabulated value, it is said to be $\qquad$ .A
Answer: significant

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FBQ3: The variation due to assignable causes can be detected and whereas the variation due to chances is beyond the control of human and cannot be traced separately.
Answer: Measured
FBQ4: The main objective of the analysis of variance technique is to examine if there is significant difference between the class $\qquad$ in view of the inherent variability within the separate classes.
Answer: means
FBQ5: To obtain the variation between samples, we compute the sum of the of the deviations of the various sample means from the overall

## (grand) mean.Â

Answer: square Â
FBQ6: ANOVA is very useful in the multiple comparison of mean among other important uses in both social and applied $\qquad$ .A Answer: sciences

FBQ7: The outcome of the $\qquad$ experiment (trial) results in the dichotomous classification of events.Â
Answer: random
FBQ8: Non-parametric methods are widely used for studying $\qquad$ that take on a ranked order (such as movie reviews receiving one to four stars). $\hat{A}$ Answer: populations

FBQ9: The $\qquad$ or the Kruskal-Wallis Test is usually based on large sample theory that the sampling distribution of H can be closely approximated with a chi-square distribution with $k-1$ degree of
$\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-f r e e d o m$. Answer: H-Test $\hat{A}$

FBQ10: A $\qquad$ coefficient means that $x$ and $y$ values increases and decrease in the same direction.
Answer: positive
FBQ11: The correlation measures only the degree of linear association between two variables while regression analysis is a statistical process for estimating the among variables.Â
Answer: relationships
FBQ12: Regression
$\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-\hat{A}-$ is a mathematical measure of the average relationship between one or more variables in terms of the original units of the data.A
Answer: Analysis

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FBQ13: The convergence to the normal distribution is $\qquad$ , in the sense that the entropy of Zn increases monotonically to that of the normal distribution. $\hat{A}$ Answer: monotonic

FBQ14: The law of large numbers says that the sample mean of a random sample converges in probability to the mean $\mathrm{I}^{1 / 1 / 4}$ of the individual random variables, if the exists.Â
Answer: variance
FBQ15: Kendall's W: a measure between 0 and 1 of inter-rater $\qquad$ .
$\qquad$ function from lifetime data, modelling censoring Answer: survival

FBQ17: Correlation coefficients have a value between -1 and $\qquad$ . Answer: +1

FBQ18: Coefficient of $\qquad$ means x and y are associated randomly. Answer: 0

FBQ19: Irving Fisher advocated the $\qquad$ cross of Laspeyreâ€̃s and Paascheấ"s Price index numbers
Answer: geometric
FBQ20: The Bernoulli process can be formalized in the language of spaces as a random sequence of independent realisations of a random variable that can take values of heads or tails. $\hat{A}$
Answer: probability A
FBQ21: These sets of finite $\qquad$ are referred to as cylinder sets in the product topology.Â
Answer: sequences Â
FBQ22: In the Binomial distribution, the outcome of the random experiment (trial) results in the $\qquad$ classification of events.
Answer: dichotomous
FBQ23: If we toss a fair coin $n$ times (which is fixed and finite) then the outcome of any trial is one of the $\qquad$ exclusive events, viz., head (success) and tail (failure).Â
Answer: mutually
FBQ24: The normal curve approaches the $\qquad$ axis asymptotically as we proceed in either direction away from the mean.
Answer: horizontal
FBQ25: In statistics, a result is interpreted as being statistically significant if it has been

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predicted as unlikely to have occurred by $\qquad$ alone, according to a predetermined threshold probability, the significance level.Â Answer: chance

FBQ26: The outcomes region of a hypothesis test is the set of all outcomes which cause the null hypothesis to be rejected in favour of the $\qquad$ hypothesis.Â Answer: alternative A

FBQ27: F-statistic is the ratio of two $\qquad$ chi-square variates divided by their respective degrees of freedom. $\hat{A}$
Answer: Independent
FBQ28: An important example of a log-concave density is a function constant inside a given convex body and $\qquad$ outside.Â
Answer: vanishing
FBQ29: The condition $f\left(x 1, \hat{a} €_{1}^{\mid}, x n\right)=f\left(|x 1|, a \hat{a} €_{\mid}^{\mid},|x n|\right)$ ensures that $X 1$, â $€_{l}, X n$ are of zero mean and uncorrelated; still, they need not be independent, nor even
Answer: pairwise
FBQ30: The $\qquad$ of a product is simply the sum of the logarithms of the factors. $\hat{A}$
Answer: logarithm Â
FBQ31: The logarithm of a product is simply the $\qquad$ of the logarithms of the factors
Answer: sum
FBQ32: Because a normal curve is symmetrical about its mean, $\mathrm{P}(\mathrm{z}$ \& $\mathrm{lt} ;-\mathrm{a})=\mathrm{P}(\mathrm{z}$ \> a) and $\mathrm{P}(\mathrm{z}$ \< a$)+\mathrm{P}(\mathrm{z}$ \> a$)=$ $\qquad$ Â Answer: 1 Â

FBQ33: If you are investigating consumer behaviour in a particular city, you might define the population as all the $\qquad$ in that city Answer: households

FBQ34: Chi-square distribution has a number of applications, one of which is to test the equality of several $\qquad$ proportions

## Answer: sample

FBQ35: If the calculated Ï $\ddagger 2$ value is 57.97 and the tabulated value of $̈ \not \ddagger 2(r-1)(s-1)=12$. 59 (critical value), then decision is $\qquad$ Answer: reject Ho

FBQ36: The variation due to $\qquad$ is beyond the control of human and cannot be traced separately.
Answer: chances

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FBQ37: The Problem of determining the process, given only a limited sample of the bernoulli trials, may be called the problem of checking if a coin is $\qquad$ Answer: fair

FBQ38: The two possible values of each Xi are often called "success" and "failure". Thus, when expressed as a number 0 or 1 , the outcome may be called the number of successes on the ith $\qquad$ .Â
Answer: trial
FBQ39: The Bernoulli process can be formalized in the language of $\qquad$ spaces as a random sequence of independent realisations of a random variable that can take values of heads or tails.
Answer: Probability
FBQ40: The normal distribution was first discovered by English Mathematician De-voire (1667-1754) in 1733 who obtained the mathematical equation for this distribution while dealing with problems arising in the game of $\qquad$ .
Answer: Chance
FBQ41: The normal distribution with $\hat{1} 1 / 4=0$ and $\hat{I} ף=$ $\qquad$ is referred to as the standard normal distribution.Â
Answer: 1
FBQ42: The condition under which Poisson distribution is obtained is in a $\qquad$ case of Binomial Distribution.
Answer: limiting
FBQ43: The critical region of a hypothesis test is the set of all outcomes which cause the null hypothesis to be $\qquad$ in favour of the alternative hypothesis.A Answer: rejected

FBQ44: The parent $\qquad$ from which the sample is drawn is normal
Answer: Population
FBQ45: Since the calculated $F$ is $\qquad$ than tabulated $F$, it is not significant. Answer: Less

FBQ46: A particular value of the sample, such as the mean income or the level of formal education, is called a $\qquad$ . $\hat{A}$ Answer: statistic

FBQ47: There are three methods of data collection with survey and these are the following. These are mail questionnaires, personal interviews and interviews.
Answer: telephone
FBQ48: The probability of getting a head in a single toss of a coin is $\qquad$ . Â
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$\hat{A}$
4Â
Answer: 0.5
FBQ49: $\qquad$ is termed as the probability of failure (non-occurrence of the event) and is constant for each trial
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Â Â
Answer: $q=1-p$
FBQ50: Â For the Binomial Distribution; Mean=np; and Variance =


Answer: npq

