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1- **Deductive statistics is .....**

1. the concept of logical induction
2. the analysis of sampling process
3. the definition of random sampling
4. the application of probability theory

2- **A and B are 2 mutually exclusive events and C and B are 2 independent events. The probability of** $A \cap B \cap C$ **equals to**

1. 0
2. 0.5
3. 1
4. 0.75

3- **To describe nominal data, we use ..... .**

1. graphs and measures
2. histogram
3. counts and percents
4. a stem plot

4- **A median is a ..... parameter.**

1. extreme value
2. location
3. scale
4. dispersion

5- **The mean is inappropriate for ..... data.**

1. nominial
2. interval
3. ratio
4. no one

6- **A disadvantage of using the mean is that it**

1. is sensitive to deviations
2. balances the deviations
3. is sensitive to extreme values
4. ignores some of the data

7- **when the distribution is severely skewed, it is not better to use a .....**

1. midpoint
2. mode
3. median
4. mean

8- **Logic inferntial statistics mainly deals with .....**

1. treatments
2. probabilities
3. populations
4. assumption

9- **A random variable is .....**

1. a nonsense story told by statisticians
2. a map from discrete probabilistic experiment to noninformative codes
3. a map from probability function to an experiment
4. a function from space of possible outcomes to real numbers

10- **A discrete random variable gives positive mass to a .....values.**

1. discrete
2. countable
3. finite
4. uncountable

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11-**Most commonly random experiments involve elementary events which are ……. .**

1. valued tossing
2. equally probable
3. actually possible
4. balanced dropping

12-**Let X be the number of throws of a coin until a head appears. The distribution of X is**

1. normal
2. geometric
3. binomial
4. negative binomial

13-**A process involving a series of trials with two complementary outcomes is called the …… process.**

1. Gaussian normal
2. Banach
3. Bernouli
4. Poisson

14-**Skewed means.....**

1. having a symetric shape.
2. a shape split into two mirror shape.
3. having a shape which is not normal.
4. having no symmetric shape.

15-**Let X be a random variable with distribution bin(n , p), then**

1. the variance is of X is n(1-p)
2. the variance of X is np
3. the expected value of X is np
4. the mean of X is p

16-**An exponential distribution has …… parameter.**

1. null
2. one
3. none
4. no

17-**The negative binomial distribution is similar to the …… .**

1. geometric distribution
2. normal distribution
3. positive binomial distribution
4. negative exponential distribution

18-**A bivariate distribution is a distribution with two …….**

1. parameters
2. medians
3. modes
4. variables

19-**The most commonly used measure of relative variability is …….**

1. standard deviation
2. variance
3. coefficient of variation
4. range

20-**The …… shows the direction and strength of the relationship between two variables.**

1. calculation
2. observation
3. correlation
4. association

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21- **The best and most effective methods to show the relationship between two numerical variable are …… .**

1. regression model
2. pearson correlation
3. scatter plot
4. 2 and 3

22- **On a scatter plot, each individual in the data is illustrated as a …… .**

1. plan
2. plot
3. pattern
4. point

23- **The relationship between two variables is strong, when …… .**

1. the simple pattern is quite common
2. the points are near the straight-line
3. the points are widely scattered
4. the direction and strength are difference

24- **If tests are used to analyze experiments in which the dependent variable is ranks, they are called.**

1. parametric
2. nonparametric
3. nominal
4. ordinal

25- **In a statistical test of hypothesis the value of the test statistics that separates the rejection and acceptance regions is called the …….**

1. acceptance region
2. acceptance value
3. critical region
4. critical value

26- **The smallest value of α for which test results become statistically significant is called the ……**

1. type I error
2. type II error
3. p-value
4. power of the test

27- **This statistical formal terms, $H_0 : \mu_1 - \mu_2 = 0$, is referred to as …….**

1. unexpected conclusion
2. expected conclusion
3. null hypothesis
4. alternative hypothesis

28- **If the differences between two groups are very probable by chance, it can be concluded that the differences are …….**

1. expected
2. unexpected
3. subtracted
4. distributed

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29- **The purpose of multiple regression is to help researchers explain …….. variable.**

1. the effect of the repressors on a dependent
2. the variance of the dependent
3. the effect of the dependent variables on regressors
4. the variance of independent

30- **Adding the frequency of each class to the sum of frequencies is called …….**

1. frequency distribution
2. cumulative frequency
3. contiguous blocks
4. interval width

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