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Question **11**

Correct

Mark 1.00 out of 1.00

Which of the following is a continuous random variable?

Select one:

- a. Number of employees
- b. Number of equipment bought
- c. Number of customers
- d. none of these

Check

Correct

Marks for this submission: 1.00/1.00.

Question **12**

Correct

Mark 1.00 out of 1.00

It is a theoretical concept whose objective is to be able to explain for some variables the reaction between the intervals of its values and their corresponding probabilities.

Select one:

- a. Negative Binomial Distribution
- b. Normal Distriburion
- c. Exponential Distribution
- d. Poisson Distribution

Check

Correct

Marks for this submission: 1.00/1.00.

Question **13**

Correct

Mark 1.00 out of 1.00

If the probability that $x = 6$ is 25%, what is the probability that x will not be equal to 6?

Select one:

- a. 55%
- b. 65%
- c. 25%
- d. 75%

Check

Correct

Marks for this submission: 1.00/1.00.

Question **14**

Correct

Mark 1.00 out of 1.00

In a normal distribution,

Select one:

- a. the random variable x is in a positively skewed distribution
- b. the random variable x follows a normal pattern
- c. the random variable x is normally dispersed with the mean and variance
- d. the random variable x follows an exponential pattern

Check

Correct

Marks for this submission: 1.00/1.00.

Question **15**

Correct

Mark 1.00 out of 1.00

Identify the probability distribution being described by the statement below

What is the probability of having exactly 7 tails before 8 heads?

Select one:

- a. hypergeometric distribution
- b. poisson distribution
- c. binomial distribution
- d. negative binomial distribution

Check

Correct

Marks for this submission: 1.00/1.00.

Question **16**

Correct

Mark 1.00 out of 1.00

Euler's number is equal to

Select one:

- a. 2.8128
- b. 2.71828
- c. 2.6803
- d. 2.3126

Check

Correct

Marks for this submission: 1.00/1.00.

Question **17**

Correct

Mark 1.00 out of 1.00

This examines whether samples are different and is commonly used when the variances of normal distributions are unknown and when an experiment uses a small sample size.

Select one:

- a. Chi-square Test for Independence
- b. T-test
- c. z-test
- d. Chi-square Test for Goodness of Fit

Check

Correct

Marks for this submission: 1.00/1.00.

Question **18**

Correct

Mark 1.00 out of 1.00

This test is applied when you have one categorical variable from a single population. It is used to determine whether sample data are consistent with a hypothesized distribution.

Select one:

- a. z-test
- b. Chi-square Test for Independence
- c. Chi-square Test for Goodness of Fit
- d. T-test

Check

Correct

Marks for this submission: 1.00/1.00.

Question **19**

Correct

Mark 1.00 out of 1.00

This is preferred to be used when handling samples which are greater than or equal to 30.

Select one:

- a. t-test for paired distribution
- b. t-test for unequal variances
- c. z-test
- d. t-test for equal variances

Check

Correct

Marks for this submission: 1.00/1.00.

Question **20**

Correct

Mark 1.00 out of 1.00

Analyze the excel sheet formula and identify which that does not belong to the group

Select one:

- a. $f(x)=\text{NORM.DIST}(183,175,9,11,\text{FALSE})$
- b. $f(x)=\text{NEGBINOM.DIST}(12,6,0.5,\text{FALSE})$
- c. $f(x)=\text{EXPON.DIST}(9,1/10,\text{FALSE})$
- d. $f(x)=\text{BINOM.DIST}(5,10,0.5,\text{FALSE})$

Check

Correct

Marks for this submission: 1.00/1.00.

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