Question 1							
Not yet answered							
Marked out of 1.00							
Why does sample size need to be accounted for in the t-distribution?							
O a. The t-distribution should not be used for large sample sizes.							
\odot b. The t-distribution becomes less skewed as the sample size increases.							
\bigcirc c. The accuracy of the t-distribution depends on the sample size.							
Od. The t-distribution changes for different sample sizes.							
○ e. The t-distribution should not be used for small sample sizes.							
Question 2							
Not yet answered							
Marked out of 1.00							
Rejecting the null hypothesis when the null hypothesis is true is called a							
○ a. Type 2 Error							
○ b. Correct decision							
○ c. Type 3 Error							
○ d. Type 1 Error							
Question 3							
Not yet answered							
Marked out of 1.00							
Heights (sup) and weights (kg) were resoured for 100 years described at the second of the second							
Heights (cm) and weights (kg) were measured for 100 randomly selected adult males. The							
fitted regression model for predicting weight based on height is $\hat{y} = -63 + 1.02x$							
Predict the weight of an adult male who is 142 cm tall.							

○ a. 81.8 kg

○ b. 142 kg

○ c. 100.4 kg

O d. 201 kg

Total Que Florid
Question 4
Not yet answered
Marked out of 1.00
In linear regression analysis, what are residuals?
a. The independent variables used to predict the dependent variable.
b. The difference between the predicted values and the actual values of the dependent variable.
 c. The coefficient estimates obtained from the regression model.
\odot d. The correlation between the independent and dependent variables.
Outside F
Question 5
Not yet answered
Marked out of 1.00
Failing to reject the null hypothesis when the null hypothesis is false is called a
raim 8 to reject the hair type head the hair type these is taken a
○ a. Type 2 Error
O b. Type 1 Error
○ c. Correct decision
○ d. Type 3 Error
Question 6
Not yet answered
Marked out of 1.00
A 95% confidence interval for the mean normal body temperature (in degree F) was computed as (98.123, 98.375), based on a sample
of 130 observations of body temperature. What is the correct interpretation of this interval?
a. we are confident that 95% of the individuals in the population should have body temperature between 98.123 and 98.375-
degree F.
Ob. we are 95% confident that the population mean normal body temperature is between 98.123 and 98.375-degree F.
○ c. none of these interpretations is correct.
od. we are confident that 95% of observations in the sample have body temperature between 98.123 and 98.375-degree F.
Question 7
Not yet answered
Marked out of 1.00
There is evidence against the null hypothesis whenever the p-value is
○ a. 0.05
○ b. large.
O c. small

O d. 1

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Question 8
Not yet answered
Marked out of 1.00
"Significant" in the statistical sense does not mean "important"; it means simply "not likely to happen just by chance."
○ a. True
O b. False
Question 9
Not yet answered
Marked out of 1.00
Suppose a researcher sets the significance level at 5% prior to conducting an experiment. After conducting the study, the researcher
computes a p-value of 0.4. The researcher can conclude that the null hypothesis is false.
○ a. True
○ b. False
Question 10
Not yet answered
Marked out of 1.00
Random sampling is useful for finding evidence of a causal relationship.
○ a. True
○ b. False
Question 11
Not yet answered
Marked out of 1.00
What does statistical inference mean?
a. The process of collecting and organizing data.
b. The process of making conclusions or decisions about a population based on sample data.
c. The process of calculating descriptive statistics.d. The process of conducting experiments and analyzing the results.

Question 12 Not yet answered Marked out of 1.00
What is random sampling?
a. selecting individuals from a population based on a specific characteristic of interest.
\odot b. choosing individuals from a population using a random number generator.
\bigcirc c. sampling individuals who are readily available and accessible.
Od. collecting data from a sample without any specific process.
Question 13
Not yet answered
Marked out of 1.00
A researcher comparing the average growth of four varieties of plants got a p-value of 0.01 following a one-way ANOVA test. From this p-value, the researcher can infer that at least one average growth is different from at least one other average growth.
○ a. True
○ b. False
Question 14
Not yet answered
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Marked out of 1.00
Marked out of 1.00 A linear regression model was fitted to the data below. Identify a characteristic or property of the data that is ignored by the regression
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Question	n 16
Not yet answ	
Marked out o	
Th	
The purp	ose of a confidence interval is to give a range of likely or plausible values for the
○ a. p	population parameter.
O b. s	sample statistic.
○ c. c	confidence level.
○ d. c	difference between the sample statistic and the population parameter.
Question	
Not yet answ	
Marked out o	
Warked out o	11.00
Doggovala	
Research	ers conducted a study and obtained a p-value of 0.75. Based on this p-value, what conclusion should the researchers draw?
○ a. F	ail to reject the null hypothesis but do not accept the null hypothesis as true either.
	Reject the null hypothesis and accept the alternative as true.
	ail to reject the null hypothesis and, therefore, accept the null hypothesis as true.
	Redo the study as it is not possible to get a p-value that high.
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0	. 10
Question	
Not yet answ	
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The large	er the sample, the less accurate the sample statistic will be as an estimate of the population parameter.
○ a. T	rue
○ b. F	
○ b. 1	aisc
Question	. 10
Not yet answ	
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Marked out o	T 1.00
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	pulation distribution is highly skewed, then the central limit theorem will never apply to the sampling distribution of sample
means.	
○ a. T	True
○ b. F	

Questi	ion 20				
Not yet ar	nswered				
Marked o	ut of 1.00				

A p-value of 0.03 indicates that there is a 3% chance of obtaining the observed data or more extreme if the null hypothesis is true.

 \bigcirc a. True