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Test Name:	ACDS-Data Science 2 (Statistics, Experimental Design, Hypothesis Testing, Pivot Tables)
Taken On:	27 Dec 2020 12:04:15 EST
Time Taken:	12 min 46 sec/ 130 min
Work Experience:	> 5 years
Invited by:	TTS
Skills Score:	
Tags Score:	<div>excel10/30</div> <div>hypothesis testing40/40</div> <div>pivot tables20/30</div> <div>statistics50/80</div>

66.7%

120/180

scored in **ACDS-Data Science 2 (Statistics, Experimental Design, Hypothesis Testing, Pivot Tables)** in 12 min 46 sec on 27 Dec 2020 12:04:15 EST


Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Statistics > Multiple Choice	1 min 47 sec	10/ 10	✓
Q2	Statistics > Multiple Choice	1 min 1 sec	10/ 10	✓
Q3	Statistics > Multiple Choice	10 sec	10/ 10	✓
Q4	Statistics > Multiple Choice	10 sec	0/ 10	✗
Q5	Statistics > Multiple Choice	17 sec	10/ 10	✓
Q6	Statistics > Multiple Choice	41 sec	10/ 10	✓
Q7	Statistics > Multiple Choice	10 sec	0/ 10	✗
Q8	Statistics > Multiple Choice	20 sec	0/ 10	✗
Q9	Excel > Multiple Choice	37 sec	0/ 10	✗
Q10	Excel > Multiple Choice	7 sec	0/ 10	✗
Q11	Hypothesis Testing > Multiple Choice	16 sec	10/ 10	✓
Q12	Hypothesis Testing > Multiple Choice	27 sec	10/ 10	✓

Q13	Hypothesis Testing > Multiple Choice	1 min 16 sec	10/ 10	✓
Q14	Hypothesis Testing > Multiple Choice	26 sec	10/ 10	✓
Q15	Excel Modeling Techniques > Multiple Choice	55 sec	0/ 10	✗
Q16	Excel Modeling Techniques > Multiple Choice	1 min 17 sec	10/ 10	✓
Q17	Excel Modeling Techniques > Multiple Choice	1 min 49 sec	10/ 10	✓
Q18	Excel > Multiple Choice	24 sec	10/ 10	✓

QUESTION 1



Correct Answer

Score 10

Statistics > Multiple Choice

statistics

QUESTION DESCRIPTION

True or False: A mean will not lie in the center of the data in a normal distribution, but usually will in a skewed distribution.

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

☐ TRUE
 ☒ FALSE

No Comments

QUESTION 2



Correct Answer

Score 10

Statistics > Multiple Choice

statistics

QUESTION DESCRIPTION

A city is surveying to see if people are in support of using city funding to build a new community center. Which method is best for getting a good random sample?


CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

☐ Survey people living within a five-mile radius of the designated building site.
 ☐ Survey every third person who visits the library.
 ☒ Survey a random selection of people living within the city limits.
 ☐ Survey a group containing half conservative voters and half liberal voters.

No Comments

QUESTION 3



Correct Answer

Score 10

Statistics > Multiple Choice


statistics

QUESTION DESCRIPTION

In which type of correlation does y increase as x increases?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)


☒ Positive Correlation

☐ Negative Correlation

☐ No correlation

No Comments

QUESTION 4



Wrong Answer

Score 0

Statistics > Multiple Choice

statistics

QUESTION DESCRIPTION

What is used to denoate the intersection of an Event A and an Event B (that is to say the probability that both Event A and Event B occur)?


CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

☐ $P(A \& B)$


☒ $P(A \cap B)$

☐ $P(A \cup B)$

☐ $P(A|B)$

No Comments

QUESTION 5



Correct Answer

Score 10

Statistics > Multiple Choice


statistics

QUESTION DESCRIPTION

We have a box containing 5 red marbles, 5 blue marbles, and 5 green marbles. We draw two marbles without replacement. What is the probability that both marbles drawn are green?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

☒ 0.095


☐ 0.089

☐ 0.11

☐ 0.12

No Comments

QUESTION 6



Correct Answer

Score 10

Statistics > Multiple Choice


statistics

QUESTION DESCRIPTION

What is does a z score tell you?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)


☒ How many standard deviations from the mean your score is.


☐ How many standard deviations from the median your score is.


☐ The likelihood your sample was representative of the population.


☐ The sample size needed to get a good estimate.


No Comments


QUESTION 7  Wrong Answer	Statistics > Multiple Choice statistics
Score 0	QUESTION DESCRIPTION What is the formula for degrees of freedom?
	CANDIDATE ANSWER Options: (Expected answer indicated with a tick) <div><input checked="" type="radio"/> df = n - 1 <input checked="" type="radio"/> df = mean/n <input type="radio"/> df = n^2 <input type="radio"/> df = n</div> No Comments

QUESTION 8  Wrong Answer	Statistics > Multiple Choice statistics
Score 0	QUESTION DESCRIPTION True or False: The formula for determining a confidence interval is $X \pm s\sqrt{n}$
	CANDIDATE ANSWER Options: (Expected answer indicated with a tick) <div><input checked="" type="radio"/> TRUE <input checked="" type="radio"/> FALSE</div> No Comments


QUESTION 9  Wrong Answer	Excel > Multiple Choice excel
Score 0	QUESTION DESCRIPTION What ToolPak do we use for analyzing data in Excel?
	CANDIDATE ANSWER Options: (Expected answer indicated with a tick) <div><input checked="" type="radio"/> Analyzer ToolPak <input type="radio"/> Numbers ToolPak <input type="radio"/> Stats Helper ToolPak <input checked="" type="radio"/> Data Analysis ToolPak</div> No Comments

QUESTION 10  Wrong Answer	Excel > Multiple Choice excel
Score 0	QUESTION DESCRIPTION True or False: Excel can automatically generate bins for your histograms?
	CANDIDATE ANSWER Options: (Expected answer indicated with a tick) <div><input checked="" type="radio"/> TRUE <input type="radio"/> FALSE</div>
	No Comments

QUESTION 11  Correct Answer	Hypothesis Testing > Multiple Choice hypothesis testing
Score 10	QUESTION DESCRIPTION In hypothesis testing, what term is used to describe the accepted fact (what you will be trying to disprove during your experiment)?
	CANDIDATE ANSWER Options: (Expected answer indicated with a tick) <div><input checked="" type="radio"/> Null Hypothesis <input type="radio"/> Anti-hypothesis <input type="radio"/> Standard Hypothesis <input type="radio"/> Accepted Standard</div>
	No Comments

QUESTION 12  Correct Answer	Hypothesis Testing > Multiple Choice hypothesis testing
Score 10	QUESTION DESCRIPTION Would the following hypothesis require a one-tailed or two-tailed test? "Taking medicine B will decrease your cholesterol."
	CANDIDATE ANSWER Options: (Expected answer indicated with a tick) <div><input checked="" type="radio"/> One-Tailed <input type="radio"/> Two-Tailed</div>
	No Comments

QUESTION 13



Correct Answer

Score 10

Hypothesis Testing > Multiple Choice


hypothesis testing

QUESTION DESCRIPTION

Would the following hypothesis require a one-tailed or two-tailed test? "Napping for twenty minutes after lunch will improve reaction time for the rest of the workday."

CANDIDATE ANSWER


Options: (Expected answer indicated with a tick)

 ☒ One-Tailed

☐ Two-Tailed

No Comments

QUESTION 14



Correct Answer

Score 10

Hypothesis Testing > Multiple Choice

hypothesis testing


QUESTION DESCRIPTION

Would the following hypothesis require a one-tailed or two-tailed test? "The average resting heart rate of smokers is 120 BPM."

CANDIDATE ANSWER


Options: (Expected answer indicated with a tick)

☐ One-Tailed

 ☒ Two-Tailed

No Comments

QUESTION 15



Wrong Answer

Score 0

Excel Modeling Techniques > Multiple Choice


pivot tables

QUESTION DESCRIPTION

Which of the following is not an area to place a pivot table's field in?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

 ☐ Filters


☐ Columns

☐ Values

☒ Cross Section

No Comments

QUESTION 16



Correct Answer

Score 10

Excel Modeling Techniques > Multiple Choice


pivot tables

QUESTION DESCRIPTION

True or false: In a pivot table, we can select multiple options for the rows in the sheet.

CANDIDATE ANSWER


Options: (Expected answer indicated with a tick)

☒ TRUE

☐ FALSE

No Comments

QUESTION 17



Correct Answer

Score 10

Excel Modeling Techniques > Multiple Choice

pivot tables

QUESTION DESCRIPTION


Where is the pivot chart option located?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

☐ Fields, Items, & Sets


☐ Field Headers

☒ Analyze Tab

☐ Pivot Table Fields Window

No Comments

QUESTION 18



Correct Answer

Score 10

Excel > Multiple Choice

excel

QUESTION DESCRIPTION


What function will give us the standard deviation of cells A1 through A20?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

☐ =STD.P(A1:A20)

☐ =STDEV.P(A1-A20)

☒ =STDEV(A1:A20)

☐ =STDEV.P(A1:A20)

No Comments

