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Full Name:	Emmanuel Dadzie
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Test Name:	**ACDS-Data Science 2 (Statistics, Experimental Design, Hypothesis Testing, Pivot Tables)**
Taken On:	3 Mar 2021 14:10:49 EST
Time Taken:	10 min 25 sec/ 130 min
Work Experience:	> 5 years
Invited by:	TTS
Invited on:	3 Mar 2021 13:33:05 EST
Skills Score:	
Tags Score:	excel 30/30
	hypothesis testing 40/40
	pivot tables 10/10
	statistics 80/80

100%

160/160

scored in **ACDS-Data Science 2 (Statistics, Experimental Design, Hypothesis Testing, Pivot Tables)** in 10 min 25 sec on 3 Mar 2021 14:10:49 EST

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	**Statistics** › **Multiple Choice**	24 sec	10/ 10	✓
Q2	**Statistics** › **Multiple Choice**	46 sec	10/ 10	✓
Q3	**Statistics** › **Multiple Choice**	8 sec	10/ 10	✓
Q4	**Statistics** › **Multiple Choice**	9 sec	10/ 10	✓
Q5	**Statistics** › **Multiple Choice**	8 sec	10/ 10	✓
Q6	**Statistics** › **Multiple Choice**	6 sec	10/ 10	✓
Q7	**Statistics** › **Multiple Choice**	7 sec	10/ 10	✓
Q8	**Statistics** › **Multiple Choice**	1 min 52 sec	10/ 10	✓
Q9	**Excel** › **Multiple Choice**	57 sec	10/ 10	✓
Q10	**Excel** › **Multiple Choice**	8 sec	10/ 10	✓
Q11	**Hypothesis Testing** › **Multiple Choice**	6 sec	10/ 10	✓
Q12	**Hypothesis Testing** › **Multiple Choice**	11 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

✓ **Correct Answer**

Score 10

Statistics > Multiple Choice `statistics`

QUESTION DESCRIPTION

What is used to denote 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∩B)
- ◯ P(A∪B)
- ◯ P(A|B)

No Comments

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)

- ◯ 0.089
- ✓ ⦿ 0.095
- ◯ 0.11
- ◯ 0.12

No Comments

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

✓

Correct Answer

Score 10

Statistics > Multiple Choice   `statistics`

QUESTION DESCRIPTION

What is the formula for degrees of freedom?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

✓ ◉ df = n - 1

○ df = mean/n

○ df = n^2

○ df = n

No Comments

QUESTION 8

✓

Correct Answer

Score 10

Statistics > Multiple Choice   `statistics`

QUESTION DESCRIPTION

True or False: The formula for determining a confidence interval for a population with an unknown population mean (μ), a known sample mean ($\bar{x}$), and a known standard deviation (σ) is given by the formula: $\bar{x} \pm z\sigma/\sqrt{n}$

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

✓ ◉ TRUE

○ FALSE

No Comments

QUESTION 9

✓ Correct Answer

Score 10

Excel > Multiple Choice `excel`

QUESTION DESCRIPTION

What ToolPak do we use for analyzing data in Excel?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

- ◯ Analyzer ToolPak
- ◯ Numbers ToolPak
- ◯ Stats Helper ToolPak
- ✓ ● Data Analysis ToolPak

No Comments

QUESTION 10

✓ Correct Answer

Score 10

Excel > Multiple Choice `excel`

QUESTION DESCRIPTION

True or False: Excel can automatically generate bins for your histograms?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

- ✓ ● TRUE
- ◯ FALSE

No Comments

QUESTION 11

✓ Correct Answer

Score 10

Hypothesis Testing > Multiple Choice `hypothesis testing`

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)

- ✓ ● Null Hypothesis
- ◯ Anti-hypothesis
- ◯ Standard Hypothesis
- ◯ Accepted Standard

No Comments

✓

Correct Answer

Score 10

Hypothesis Testing > Multiple Choice [hypothesis testing]

QUESTION DESCRIPTION

Would the following hypothesis require a one-tailed or two-tailed test? "Taking medicine B will decrase your cholesterol."

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

✓ ● One-Tailed

○ Two-Tailed

No Comments

✓

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

✓

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

✓

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 16

✓

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(A1:A20)

○ =STDEV(A1-A20)

✓ ⦿ =STDEV(A1:A20)

No Comments