LDG660 – Research Methods – Quiz 3

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Directions: Please put your answer to the left of the question. This exam is worth 50 points, or 5% of your final course grade. Thus, each question is worth 5 points.

Answer	Question
A	1. Both case studies and field studies are considered non-experimental designs A) True B) False
D	2. Which of the following choices is true? A) An archival study is a descriptive method in which already existing records are reexamined for a new purpose B) A case study is the descriptive record of an individual's experiences, behaviors, or both, kept by an outside observer C) A field study is a non-experimental research method used in the field (or in a real-life setting) D) All of the above are true
B	3. If we are concerned with how well the findings of an experiment generalize or apply to people and settings that were not tested directly, then we are concerned with A) Internal validity B) External validity C) Both A and B D) Neither A nor B
B	4. If I ask the following question on a survey, would it be considered an open-ended question or a closed-ended question? Question: On a scale of 1 thru 5, with a 5 indicating high likability, how much do you like LDG660 at Nyack College? A) Open-ended question B) Closed-ended question
C	5. Is the following a good survey question? Why or why not? Question: On a scale of 1 thru 5, with a 5 indicating high likability, how much do you like baseball and football? A) Yes, because it is a structured question B) Yes, because it is a closed-ended question C) No, because it is a double-barreled question D) No, because it should contain a Likert scale that is larger (i.e., 1 thru 7, vs 1 thru 5).

Consider the following information for questions 6, 7, 8, and 9. The table below shows a hypothetical scenario where n = 5 employees at ABC Welding were sampled and scored (by the primary Industrial Psychologist at the company) on (1) their degree of self-efficacy and (2) their willingness to use new technology in the workplace.

- The company has 25 employees (N = 25), and every 5th employee was part of the sample.
- Self-Efficacy refers to one's confidence in themselves and their abilities. Scores ranged from 0 to 100 where 0 equals no self-efficacy present (no confidence in oneself), and 100 equals a high-degree of self-efficacy (high confidence in oneself). Thus, the higher your score, the more confident you are in yourself and your abilities.
- Scores for one's willingness to use new technology in the workplace scores could also range from 0 to 100. A person who scores low on the scale (near 0) is not very willing to use new technology in the workplace. A person who scores high on the scale (near 100) is very willing to use new technology in the workplace.
- The data is below for the sample of n = 5. Each employees had two scores – one for self-efficacy and one for willingness.

Employee ID	Self-Efficacy Score	Willingness Score
1	89	67
2	95	98
3	62	78
4	27	31
5	44	35

C	6. What type of sampling technique was used? A) Stratified sampling B) Non-probability sampling C) Systematic random sampling D) Snowball sampling
D	7. Based on the context above, what seems like a plausible research question to test, and what statistical technique could be used? A) Does one's degree of self-efficacy predict their willingness to use new technology in the workplace? Correlation and/or regression B) Does one's willingness to use new technology in the workplace predict their degree of self-efficacy? Correlation and/or regression C) Can an Industrial Psychologist accurately predict ABC Welding's Corporate self-efficacy levels? Two-sample t-test D) Any of these could be acceptable research questions and corresponding statistical tests

B	8. Below is the scatterplot with the corresponding R-squared value (the coefficient of variation). What can we infer from this scatterplot? Select one. **Willingness Score** $R^2 = 0.7644$ A) Self-efficacy is negatively correlated with willingness. B) The r-value, or correlation coefficient, is 0.8743 C) The x-axis represents willingness, while the y-axis represents self-efficacy D) All of the above are correct
D	9. Let's assume the regression equation is y = 0.8624(x) + 7.121. If someone had a self-efficacy score of 80, what would be their predicted willingness score? A) 84.507 B) 82.412 C) 72.873 D) 76.113
A!!! (Sorry)	10. I now know more than ever that I hate statistics. A) True B) False