

國立成功大學

113學年度碩士班招生考試試題

編 號：327

系 所：教育研究所

科 目：社會科學研究法

日 期：0201

節 次：第 1 節

備 註：不可使用計算機

※ 考生請注意：本試題不可使用計算機。 請於答案卷(卡)作答，於本試題紙上作答者，不予計分。

一、選擇題：從選項答案中選擇一個最適合的答案，並將所選擇之答案英文字母及題號作答於答案紙上。(5分，每題 50分)

1. In a dataset, which measure provides a representation of the middle value?

- A) Median
- B) Mode
- C) Mean
- D) Range

2. What does a reliability coefficient of 0.85 suggest in the context of test construction?

- A) The test has a high degree of consistency.
- B) The test measures a wide range of skills.
- C) The test has a low probability of guessing.
- D) The test is biased toward certain demographics.

3. Which of the following best describes variance in a dataset?

- A) The average of squared deviations from the mean.
- B) The measure of central tendency.
- C) The range of values in the dataset.
- D) The most frequently occurring value.

4. What does a standard deviation of 10 indicate in a set of test scores?

- A) The average score in the test.
- B) The range of scores in the test.
- C) The spread of scores around the mean.
- D) The percentage of students who passed the test.

5. What does a validity coefficient of 0.70 signify in educational testing?

- A) The test measures what it intends to measure.
- B) The test is free from errors.
- C) The test has high reliability.
- D) The test discriminates against certain groups.

6. If a test item discriminates well between high-performing and low-performing students, what does this suggest about the item?
- A) The item has low validity.
 - B) The item has high reliability.
 - C) The item is biased.
 - D) The item has good discriminative power.
7. In a study examining the relationship between hours spent studying and exam scores, a correlation coefficient of -0.65 is found. What does this indicate about the relationship between these variables?
- A) There is a strong positive relationship between study hours and exam scores.
 - B) There is a moderate negative relationship between study hours and exam scores.
 - C) There is no relationship between study hours and exam scores.
 - D) There is a weak positive relationship between study hours and exam scores.
8. When representing the distribution of a continuous variable in a histogram, what does the height of each bar typically signify?
- A) The range of values within each interval.
 - B) The frequency or count of values within each interval.
 - C) The mean value of the data within each interval.
 - D) The standard deviation of the data within each interval.
9. Sarah wants to test which plant grows the tallest: a sunflower, a cactus, or a fern. She gives each plant the same amount of water and sunlight for one month. What is the independent variable in Sarah's experiment?
- A) The type of plant (sunflower, cactus, or fern)
 - B) The amount of water and sunlight
 - C) The height of the plants
 - D) The time duration of the experiment
10. Which of the following is an example of random sampling?
- A) Asking only the tallest students in the class about their favorite subject.
 - B) Picking volunteers who raise their hands to participate in a science experiment.
 - C) Selecting friends from a group to participate in a study.
 - D) Choosing every third person who enters the library to answer a survey.

二、請解釋下列各組中的兩個研究法相關名詞，並說明其兩者之差異處：（每一題 10 分，共 50 分）

- (1) 操作化 (operationalization) 與 概念化 (conceptualization)
- (2) 軟性資料 (soft data) 與 硬性資料 (hard data)
- (3) 異例抽樣 (Deviant Case Sampling) 與 配額抽樣 (Quota Sampling)
- (4) 同樣本多次研究 (panel study) 與 世代研究 (cohort study)
- (5) 效標參照測驗 (criterion-referenced test) 與 常模參照測驗 (norm-referenced test)