

系所組別： 教育研究所

考試科目： 社會科學研究法

考試日期：0224，節次：1

※ 考生請注意：本試題不可使用計算機

請勿在本試題紙上作答，否則不予計分

一、The following 10 multiple-choice questions are worth 5 points each.

Select one or more correct options for each question.

1. The essential ingredient of scientific observation is

- (a) control
- (b) precise instrumentation
- (c) description
- (d) creating change

2. What characteristic distinguishes scientific hypotheses from casual, everyday hypotheses?

- (a) testability
- (b) intuitive appeal
- (c) circularity
- (d) certainty

3. When a researcher studies an individual differences variable, the levels of the independent variable are

- (a) manipulated
- (b) averaged
- (c) dependent
- (d) selected

4. When a study is free of confoundings it is said to have

- (a) external validity
- (b) internal validity
- (c) integrity
- (d) reproducibility

5. The results of an externally valid study are ones that

- (a) apply to a narrow range of subjects, conditions, and settings
- (b) apply to a wide range of subjects, conditions, and settings
- (c) are likely to replicate if the study is repeated
- (d) are likely to be difficult to interpret unambiguously

(背面仍有題目,請繼續作答)

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6. In which of the following survey research designs is the focus on describing the characteristics of a population or the differences between two or more populations at a certain point in time?
- (a) cross-sectional design
  - (b) successive independent samples design
  - (c) longitudinal design
  - (d) accidental samples design
7. Which of the following factors does not influence the reliability of a measure of students' understanding of course material?
- (a) the way in which the measure is administered (e.g., whether the instructions are clear and the testing situation is free of distractions)
  - (b) how much the individuals differ in their understanding of the material
  - (c) number of items used to measure students' understanding of the material
  - (d) how much discriminant validity the measure of understanding has from other measures, such as intelligence
8. The systematic error variation due to differences among participants is \_\_\_\_\_ in the statistical analysis of repeated measures designs.
- (a) balanced
  - (b) corrected
  - (c) eliminated
  - (d) increased

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9. Which of the following threats to internal validity arises when participants are selected for treatment because they score particularly high on a less than perfectly reliable test?

- (a) instrumentation
- (b) testing
- (c) convergence
- (d) regression

10. The problem of selection bias in survey techniques, in which the researcher's procedures determine who is likely to be included in a sample, is similar to the problem of \_\_\_\_\_ in archival records.

- (a) selection threat
- (b) sampling distinctions
- (c) selective deposit
- (d) running records

二、請解釋下列各究法相關名詞，並舉例說明之。(每一題 5 分，共 25 分)

1. 壓抑變項 (Suppressor variable)
2. 固定樣本資料 (Panel data)
3. 立意抽樣 (Purposive sampling)
4. 假性相關 (spurious relation)
5. 世代研究 (Cohort study)

三、行為科學研究主要在瞭解事實的真相，新聞報導也是在追尋事實的真相。試舉出兩者間在探討事實真相時，最少三項差異之處？並討論行為科學研究在瞭解事實真相過程中的「系統性質疑」？又如何達到？(共 25 分)