

Question 1

Correct

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1.00 Flag question

What are the essential characteristics of scientific work?

- a. Use of technical language 
- b. Systematic and comprehensible approach 
- c. No reference to sources
- d. Subjective expressions of opinion

Question 2

Partially correct

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1.00 Flag question

Which of the following hypotheses is scientifically relevant?

- a. "Sport is important because I feel better afterwards."
- b. "If people exercise for at least 30 minutes a day, they will never get sick."
- c. "People should exercise more because it is good for their health."
- d. "If people exercise for at least 30 minutes a day, their physical fitness will improve." 

Question 3

Correct

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1.00 Flag question

Which of the following statements describe potential problems when using generative AI (e.g. ChatGPT) in scientific work?

- a. Generative AI can reduce the scientific depth of a paper if it is used uncritically. 
- b. Generative AI can be used without restriction as a substitute for your own scientific analyses.
- c. Generative AI can provide inaccurate or incorrect information. 
- d. The use of generative AI can lead to plagiarism if content is adopted without citing the source. 

Question 4

Partially correct

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Which of the following statements correctly describe(s) the concept of falsifiability?

- a. A statement that is not falsifiable has no scientific relevance. 
- b. A statement is falsifiable if it is logically possible to disprove it. 
- c. All scientific theories are falsifiable. 
- d. Falsifiability means that a statement is always true.

Question 5

Partially correct

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1.00 Flag question

Which of the following statements describe the importance of operationalization?

- a. It makes theoretical constructs measurable. 
- b. It is used to create bibliographies.
- c. It replaces the need for hypotheses.
- d. It makes it possible to test hypotheses. 

Question 1

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Flag question

Which of the following characteristics contribute to the validity of scientific measurements?

- a. The measurements were supported by funding.
- b. The measurements must have a high degree of complexity.
- c. The measurements are repeatable and consistent (reliability). ✓
- d. The measurements actually capture what they are intended to capture. ✓

Question 2

Partially correct

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Flag question

Which of the following statements are correct with regard to operationalization?

- a. It makes theoretical constructs measurable by forming hypotheses. ✓
- b. It describes the interaction between different disciplines.
- c. It is part of the practice of scientific work in which theories are tested.
- d. It is based on the axioms of a paradigm.

Question 3

Correct

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Flag question

"If people exercise at least 30 minutes a day, they are less likely to develop heart disease." Why is this statement a valid hypothesis?

- a. Because it is an emotional appeal.
- b. Because it can be used to express a personal opinion.
- c. Because it can be operationalized. ✓
- d. Because it can be disproven. ✓

**Question 4**

Correct

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Flag question

Which of the following statements apply to the relationship between sample and population?

- a. Results found in a sample always automatically apply to the entire population.
- b. The sample should reflect the characteristics of the population as closely as possible. ✓
- c. The population always consists of a smaller group than the sample.
- d. A representative sample makes it possible to generalize results to the population. ✓

Question 5

Correct

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Flag question

You have parts of your work written by ChatGPT. Why is this problematic?

- a. It may result in a lack of scientific depth. ✓
- b. Using ChatGPT can lead to plagiarism. ✓
- c. ChatGPT can provide up-to-date and verified information, therefore it is a reliable source.
- d. The information provided by ChatGPT may be inaccurate or incomplete. ✓