

Name_____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) The first step in the research process is: 1) _____
A) considering theories in an area B) finding a problem
C) conducting a literature review D) designing the experiment
- 2) In a cause-and-effect relationship, the independent variable in a study is best associated with the: 2) _____
A) cause B) effect
C) both cause and effect D) neither cause nor effect
- 3) The process whereby an individual makes an argument with a major premise, a minor premise, and then a conclusion, is called a 3) _____
A) experiential conclusion B) deductive syllogism
C) logical syllogism D) logical conclusion
- 4) At the most basic level, an experiment consists of which factors? 4) _____
A) cause & effect
B) independent variable & extraneous variables
C) independent variable, dependent variable, & extraneous variables
D) dependent variable, extraneous variables, & causative variable
- 5) In a research study, control refers to 5) _____
A) manipulation of the factor(s) of major interest
B) directing research participants to follow procedures correctly
C) procedures for controlling undesired factors
D) A and B
E) A and C
- 6) You are running a simple study to determine if time of day affects student test performance. One group takes a test at 9 AM, the other group takes the same test at 6 PM. During the afternoon session, the group seems distracted by the school band, which is practicing nearby, but the students finish the test on-time with no apparent problems. When you analyze the results, you find the morning group performed significantly better than the evening group. What should you conclude? 6) _____
A) The results may be invalid because time of day affects mental performance.
B) The results are valid because the difference was significant.
C) The results are valid because researchers cannot always control factors like noise.
D) The results may be invalid because the band's noise was an extraneous variable.
- 7) Which of the following is the most valid way to gather information? 7) _____
A) tenacity
B) authority
C) experience
D) reason & logic
E) science

- 8) Whereas the _____ is manipulated by the experimenter, the _____ consists of the recorded information or data. 8) _____
A) independent variable; dependent variable
B) extraneous variable; dependent variable
C) extraneous variable; independent variable
D) dependent variable; independent variable
- 9) "A formal statement of the relationship among relevant variables in a research area" best describes: 9) _____
A) a logical syllogism B) a theory
C) acquisition of knowledge by experience D) acquisition of knowledge by authority
- 10) The attempt to determine the cause-and-effect relations that exist in nature best describes a(n): 10) _____
A) experiment B) logical syllogism
C) control D) objective measurement
- 11) In the research process, the next step after writing the research report is to 11) _____
A) relate your results to past research and theory
B) check that all extraneous variables were controlled in the research
C) share the results with other scientists
D) find a new problem to research
- 12) The term *empirical* describes measurements that are based on: 12) _____
A) qualitative observations B) correlational observations
C) objectively quantifiable observations D) significant observations
- 13) Which approach to acquiring information is based on hearing information over and over? 13) _____
A) reason and logic B) experience
C) tenacity D) authority
- 14) Laticia is conducting a study to determine how alcohol affects aggression levels in college students in the U.S.. In her study, what would be the dependent variable? 14) _____
A) both alcohol and aggression levels B) college students
C) alcohol levels D) aggression levels
- 15) Phrenology, a technique whereby bumps on a person's skull were used to determine personality characteristics, was later proven to be incorrect and discarded by scientists. This event best describes which component of the scientific method? 15) _____
A) confirmation of findings B) self-correction
C) objectivity D) control
- 16) You predict that sleep-deprived adults will have more difficulty learning a complex task than adults who are allowed to sleep 8 hours. Which research step is illustrated here? 16) _____
A) developing a good research idea B) formulating the research hypothesis
C) conducting your experiment D) surveying the psychological literature
- 17) Which of the following is a method of sharing your results with the scientific community? 17) _____
A) presenting a paper or poster at a psychological convention
B) publishing an article in a professional journal
C) presenting a paper at an undergraduate research conference
D) any of the above

- 18) Which of the following is not true regarding extraneous variables? 18) _____
- A) Extraneous variables make cause and effect relations easier to interpret.
 - B) They can influence the dependent variable.
 - C) Extraneous variables are not the focus of the experiment or study.
 - D) Control over extraneous variables is a key element of the scientific method.

- 19) Experiments are able to support _____ in nature. 19) _____
- A) dependent variables
 - B) only correlations between variables
 - C) cause and effect relationships
 - D) interpersonal relationships

ESSAY. Write your answer in the space provided or on a separate sheet of paper.

- 20) List and briefly describe the 11 main steps in the research process.

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 21) A researcher might use a computer to obtain data from experimental participants in order to meet which characteristic of the scientific method? 21) _____
- A) exert control
 - B) objectivity
 - C) confirmation of findings
 - D) self-correction

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

- 22) Place the following eleven steps in the research process in the proper order, from 1 for the first step, to 11 for the last step: 22) _____

- _____ Generate a hypothesis
- _____ Consider relevant theories
- _____ Relate results to past research and theory
- _____ Find a problem
- _____ Develop a research design
- _____ Conduct a literature review
- _____ Prepare the research report
- _____ Conduct the experiment
- _____ Find a new problem
- _____ Analyze data and make statistical decisions
- _____ Share results with scientific community

ESSAY. Write your answer in the space provided or on a separate sheet of paper.

- 23) Describe the three types of variables in an experiment and how they are related.

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 24) After locating and reading journal articles related to your research, a good way to organize information is through the use of one-page summary sheets. These summary sheets should only include what information? 24) _____
A) a complete listing of references used in the article
B) a one-paragraph summary of the theory behind the research
C) full article reference (in APA format), full copy of article abstract, full copy of introduction, summary of results, and summary of discussion
D) full article reference (in APA format), summary of introduction, summary of method, summary of results, and summary of discussion
- 25) _____ refers to the accuracy or truthfulness of a piece of information. 25) _____
A) Reliability B) Validity C) Objectivity D) Tenacity
- 26) The year 1879 marks the beginning of modern psychology. This year was selected because it marks 26) _____
A) the year the scientific method was developed
B) the establishment of the first psychology research laboratory
C) establishment of the first psychology department within a university
D) the first test on animal memory

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

- 27) First, describe the five ways we typically acquire knowledge, and then indicate which of the five provides the most valid information. 27) _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 28) "Rich people drive expensive cars. Billy is a rich person, therefore he must drive an expensive car." This statement is an example of 28) _____
A) a logical syllogism B) a deductive syllogism
C) inductive logic D) tenacity

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

- 29) Briefly describe the four main components of the scientific method and indicate which of the four is most important to conducting successful research. 29) _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 30) Of the four main components of the scientific method, which best characterizes science? 30) _____
A) confirmation of findings B) self-correction
C) control D) objectivity
- 31) When we accept information from a supposed authority on a particular subject, we should first question 31) _____
A) how many times the information is repeated
B) if the authority figure is being forced against his or her will to state the information
C) whether the information has been published in a scientific journal
D) the credibility of the authority

- 32) If a study is valid, another researcher should be able to conduct the study again under identical conditions and get the same results. This represents which component of the scientific method? 32) _____
A) objectivity B) confirmation of findings
C) control D) self-correction
- 33) _____ variables are undesired factors that may influence the dependent variable and invalidate an experiment. 33) _____
A) Experimental B) Dependent C) Extraneous D) Independent
- 34) Jessica routinely drinks eight glasses of water a day because she has repeatedly heard in the news and in magazines this keeps one healthy. Jessica has acquired her information through: 34) _____
A) experience B) authority
C) tenacity D) reason and logic

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

- 35) List the four main parts or components of the scientific method: 35) _____

ESSAY. Write your answer in the space provided or on a separate sheet of paper.

- 36) Why are cause-and-effect relationships important in psychological research?

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 37) When you buy a cola product because a famous sports figure tells you in advertisements that it's refreshing, you are gathering knowledge about the product through which technique? 37) _____
A) reason and logic B) experience
C) tenacity D) authority
- 38) This component of the scientific refers to when scientists identify an error and then change their conclusions. 38) _____
A) self-correction B) objectivity
C) control D) confirmation of findings
- 39) Which of the following is not a main component of the scientific method? 39) _____
A) control
B) self-correction
C) objective measurements
D) confirmation of findings
E) reason & logic

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

- 40) List and briefly describe the three main types of variables in a basic scientific experiment: 40) _____

Answer Key
Testname: CH1

- 1) B
- 2) A
- 3) C
- 4) C
- 5) E
- 6) D
- 7) E
- 8) A
- 9) B
- 10) A
- 11) C
- 12) C
- 13) C
- 14) D
- 15) B
- 16) B
- 17) D
- 18) A
- 19) C
- 20)
- 21) B
- 22) 4 Generate a hypothesis
- 3 Consider relevant theories
- 8 Relate results to past research and theory
- 1 Find a problem
- 5 Develop a research design
- 2 Conduct a literature review
- 9 Prepare the research report
- 6 Conduct the experiment
- 11 Find a new problem
- 7 Analyze data and make statistical decisions
- 10 Share results with scientific community
- 23)
- 24) D
- 25) B
- 26) B
- 27)
- 28) A
- 29)
- 30) C
- 31) D
- 32) B
- 33) C
- 34) C
- 35) Objectivity, confirmation of findings, self-correction, and control
- 36)
- 37) D
- 38) A
- 39) E
- 40) Independent variable, dependent variable, and extraneous variables