



Research Method STA630 Solved MCQs

By

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1- Hypothesis refers to

- a) The outcome of an experiment
- b) A conclusion drawn from an experiment
- c) A form of bias in which the subject tries to outguess the experimenter
- d) A tentative statement about the relationship**

2- Statistics is used by researchers to

- a) Analyze the empirical data collected in a study**
- b) Make their findings sound better
- c) Operationally define their variables
- d) Ensure the study comes out the way it was intended

3- A literature review requires

- a) Planning
- b) Good & clear writing
- c) Lot of rewriting
- d) All of the above**

4- A literature review is based on the assumption that

- a) Copy from the work of others
- b) Knowledge accumulates and learns from the work of others**
- c) Knowledge disaccumulates
- d) None of the above option

5- A theoretical framework

- a) Elaborates the relationship among the variables
- b) Explains the logic underlying these relationships
- c) Describes the nature and direction of the relationships
- d) All of the above**

6- Which of the following statement is not true?

- a) A research proposal is a document that presents a plan for a project
- b) A research proposal shows that the researcher is capable of successfully conducting the proposed research project
- c) A research proposal is an unorganized and unplanned project**
- d) A research proposal is just like a research report and written before the research project

7- Preliminary data collection is a part of the

- a) Descriptive research
- b) Exploratory research**
- c) Applied research
- d) Explanatory research

8- Conductin surveys is the most common method of eneratin

- a) Primary data**
- b) Secondary data
- c) Qualitative data
- d) None of the above

9- After identifyin the important variables and establishin the loical reasonin in theoretical framework, the next step in the research process is

- a) To conduct surveys
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- d) To use experiments in an investiation

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- a) The research desin
- b) Nature of the data collected
- c) Nature of the hypothesis
- d) Both A & B**

11-Personal interviews conducted in shoppin malls are known as:

- a) Mall interviews
- b) Mall intercept interviews**
- c) Brief interviews
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12-WATS lines provided by lon distance telephone service at fixed rates. In this reard, WATS is the abbreviation of:

- a) West Africa Theoloical Seminary
- b) Washtenaw Area Transportation Study
- c) Wide Area Telecommunications Service**
- d) World Air Transport Statistics

13-A list of questions which is handed over to the respondent, who reads the questions and records the answers himself is known as the:

- a) Interview schedule
- b) Questionnaire**
- c) Interview uide
- d) All of the iven options

14-One of the most critical stages in the survey research process is:

- a) Research design
- b) Questionnaire design**
- c) Interview design
- d) Survey design

15-Question that consists of two or more questions joined together is called a:

- a) Double barreled question**
- b) General question
- c) Accurate question
- d) Confusing question

16-The number of questionnaires returned or completed divided by the total number of eligible people who were contacted or asked to participate in the survey is called the:

- a) Response rate**
- b) Participation rate
- c) Inflation rate
- d) None of the given options

17-To obtain the freest opinion of the respondent, when we ask general question before a specific question then this procedure is called as the:

- a) Research technique
- b) Qualitative technique
- c) Funnel technique**
- d) Quantitative technique

18- A small scale trial run of a particular component is known as:


- a) Pilot testing
- b) Pre-testing
- c) Lab experiments
- d) Both A & B**

19-Field testing of the questionnaire shows that:

- a) Respondents are willing to co-operate**
- b) Respondents are not willing to co-operate
- c) Respondents do not like any participation
- d) All of the given options

20-Service evaluation of hotels and restaurants can be done by the:

- a) Self-administered questionnaires**
- b) Office assistant
- c) Manager
- d) None of the given options



Multiple Choice Questions

(The answers are provided after the last question.)

1. Mrs. Smith is writing her daily observations of a student and writes, without interpretation, that the student is not completing the class work and is constantly speaking out of turn. Which of the following objectives does she appear to be using?

- a. prediction
- b. description**
- c. explanation
- d. exploration

2. Which of the following is a form of research typically conducted by teachers, counselors, and other professionals to answer questions they have and to specifically help them solve local problems?

- a. action research**
- b. basic research
- c. predictive research
- d. orientational research

3. How much confidence should you place in a single research study?

- a. you should completely trust a single research study.
- b. you should trust research findings after different researchers have found the same findings**
- c. neither a nor b
- d. both a and b

4. The development of a solid foundation of reliable knowledge typically is built from which type of research?

- a. basic research**
- b. action research
- c. evaluation research
- d. orientational research

5. Which form of reasoning is the process of drawing a specific conclusion from a set of premises?

- a. rationalism
- b. deductive reasoning**
- c. inductive reasoning
- d. probabilistic

6. The idea that when selecting between two different theories with equal explanatory value, one should select the theory that is the most simple, concise, and succinct is known as _____.

- a. criterion of falsifiability
- b. critical theory
- c. guide of simplicity
- d. rule of parsimony**

7. Research that is done to examine the findings of someone else using the "same variables but different people" is which of the following?

- a. exploration
- b. hypothesis
- c. replication**
- d. empiricism

8. _____ is the idea that knowledge comes from experience.

- a. rationalism
- b. deductive reasoning
- c. logic
- d. empiricism**

9. According to your text, what are the five key objectives of science?

- a. prediction, summary, conclusion, explanation, description
- b. influence, prediction, questions, exploration, answers
- c. exploration, description, explanation, prediction, influence**
- d. questions, answers, prediction, explanation, summary

10. A researcher designs an experiment to test how variables interact to influence how well children learn spelling words. In this case, the main purpose of the study was:

- a. Explanation**
- b. Description
- c. Influence
- d. Prediction

11. There is a set of churches in the U.S. where part of the service involves snake handling. The researcher wants to find out why the people attending these churches do this and how they feel and think about it. In this case, the primary purpose of the study is:

- a. Exploration**
- b. Description
- c. Influence
- d. Prediction

12. Which of the following is not a characteristic of a good theory or explanation?
- a. It is parsimonious
 - b. It is testable
 - c. It is general enough to apply to more than one place, situation, or person
 - d. All of the above are characteristics of good theories**
13. Which of the following is not a basic assumption of science?
- a. Science cannot provide answers to all questions
 - b. It is possible to distinguish between more and less plausible claims
 - c. Researchers should follow certain agreed upon norms and practices
 - d. Science is best at solving value conflicts, such as whether abortion is immoral**
14. What general type of research is focused on collecting information to help a researcher advance an ideological or political position?
- a. Evaluation research
 - b. Basic research
 - c. Action research
 - d. Orientational research**
15. Which “scientific method” follows these steps: 1) observation/data, 2) patterns, 3) theory?
- a. Inductive**
 - b. Deductive
 - c. Imductive
 - d. Top down
16. Rene Descartes is associated with which of the following approached to knowledge generation?
- a. Empiricism
 - b. Rationalism**
 - c. Expert opinion
 - d. None of the above
17. Which scientific method is a top-down or confirmatory approach?
- a. Deductive method**
 - b. Inductive method
 - c. Hypothesis method
 - d. Pattern method
18. Which scientific method is a bottom-up or generative approach to research?
- a. Deductive method
 - b. Inductive method**
 - c. Hypothesis method
 - d. Pattern method



19. Which scientific method focuses on testing hypotheses developed from theories?

- a. Deductive method**
- b. Inductive method
- c. Hypothesis method
- d. Pattern method

20. Which scientific method often focuses on generating new hypotheses and theories?

- a. Deductive method
- b. Inductive method**
- c. Hypothesis method
- d. Pattern method

21. Which of the following statements is true of a theory?

- a. it most simply means “explanation”
- b. it answers the “how” and “why” questions
- c. it can be a well developed explanatory system
- d. all of the above are correct**



Why do you need to review the existing literature?

Select correct option:

To give your dissertation a proper academic appearance, with lots of references

Because without it, you could never reach the required word-count

To find out what is already known about your area of interest

To help in your general studying

Which one of the following is not an assumption of science?

Select correct option:

There are reoccurring patterns in the world.

Events happen because of preceding causes.

We can discover solutions to problems of interest.

Theoretical explanations must agree with common sense.

The scientific method is preferred over other ways of knowing because it is more;

Select correct option:

Reliable

Systematic

Accurate

All of the given options

Which of the following is not a concept?

Select correct option:

Leadership

Total Quality Management

Human Resource Management

IQ

What is an hypothesis?

Select correct option:

A prediction of a relationship between certain variables.

An experiment that tests certain predictions.



An independent variable.

A dependent variable.

Which one of the following creates problems of measurements of a concept?

Select correct option:

Unambiguous meanings

Vague meanings

Clear meanings

Dictionary meanings

_____ meanings attached to a concept create problems of measurements.

Select correct option:

Unambiguous

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Clear

Dictionary

Under which of the following research method is not applicable?

Select correct option:

Health care

Business

Government offices

Imaginary worlds

one tailed hypothesis predicts-----

Select correct option:

The future

The lottery result

The frequency of the effect

The direction of the effect



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2. Qualitative technique
3. **Funnel technique**
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3. Lab experiments

4. **Both A & B**

M. Field testing of the questionnaire shows that:

1. **Respondents are willing to co-operate**

2. Respondents are not willing to co-operate

3. Respondents do not like any participation

4. All of the given options

N. Service evaluation of hotels and restaurants can be done by the:

1. **Self-administered questionnaires**

2. Office assistant

3. Manager

4. None of the given options

A literature review requires;

Select correct option:

planning

clear writing

good writing

All of the given option

One of the preoccupations of quantitative researchers is with generalization, which is a sign of:

Select correct option:

External validity

Internal reliability

External reliability

Internal validity

What is the basis of the Scientific Method?

Select correct option:

To test hypotheses in conditions that are conducive to its success.



To formulate a research problem and disprove the hypothesis.

To formulate a research problem, test the hypothesis in carefully controlled conditions that challenge the hypothesis.

To test hypotheses and if they are disproved, they should be abandoned completely.

One of the preoccupations of quantitative researchers is with generalization, which is a sign of:

Select correct option:

External validity

Internal reliability

External reliability

Internal validity

Which of the following is NOT a characteristic of a good research topic?

Select correct option:

It is ethical.

It can be investigated through the collection and analysis of data.

It focuses on a philosophical or ethical issue.

It is theoretically or practically significant.

If a researcher is studying the effect of using laptops in his classroom to ascertain their merit and worth, he is likely conducting which type of research?


Select correct option:

Basic

Applied

Evaluation

Experimental



The extent to which we can generalize the results of a study to other participants is called:

Select correct option:

- Sampling validity
- External validity
- Construct validity
- Internal validity

Procedures determining what two issues are rarely used in quantitative research?

Select correct option:

- Objectivity and subjectivity
- Reliability and validity
- Accessibility and replicability
- Quality and quantity

To explain, predict, and/or control phenomena are the goal of-----


Select correct option:

- Tradition
- Inductive logic
- Deductive logic
- The scientific method

To say that a theory is falsifiable is to say that;

Select correct option:

- It is based on results that are not replicable.
- Investigators have replaced it with a simpler or more accurate theory.
- We can imagine results that would contradict it.
- It is so vague that it fits any and all possible results.



When doing research involving deception with human subjects, researchers have an obligation to do which of the following?

Select correct option:

- Tell subjects the truth about the study's purpose and methods after the study is completed
- Prevent mental and physical harm to subjects
- Let subjects withdraw from the study at any time if they don't want to keep participating
- All of the given options

Which of the following is the least appropriate research problem?

Select correct option:

- Does studying Latin improve the standardized vocabulary test scores of seventh grade students?
- Does drilling fifth grade students with multiplication facts improve their standardized test scores?
- What is the relationship between students' math attitudes and math achievement?
- Should students have access to controversial novels in school?

If a researcher was studying the use of various instructional approaches to the "multiple intelligences" of his students, he is likely to be conducting which type of research?


Select correct option:

- Basic
- Applied
- Evaluation
- Grounded theory

What is the final step of a scientific investigation?

Select correct option:

- Analyze data



Collect data

Report the findings

Determine whether the hypothesis was supported

Research questions are crucial because they will:

Select correct option:

Guide your decisions about what data to collect and from where.

Help you decide which research area interests you.

Ensure that your findings have external validity.

Prevent you from thinking about research strategies.

Which of the following is the best hypothesis statement to address the research question, "What impact will the new advertising campaign have on use of Brand B?"

Select correct option:

The new advertising campaign will impact Brand B usage.

The new advertising campaign will increase Brand B trial.

The new advertising campaign will cause increased Brand B usage at the expense of Brand C.

The new advertising campaign will increase Brand B's market penetration.

What is the reason for consulting handbooks, yearbooks, encyclopedias, or reviews in the initial stages of identifying a research topic?

Select correct option:

They are readily available.


They provide an overview of the issues related to a topic.

They are primary sources.

They avoid reporting statistical data so one can interpret the results more easily.

Ms. Laiba has decided to use the test at the end of the textbook to measure the achievement levels of the students in her study. Which of the following BEST describes the chapter test?

Select correct option:



Definition

Construct

Variable

Operationalized variable

Which of the following is least likely to occur as an ethical problem with e-research?

Select correct option:

People are not likely to be able to stop once they have begun participating.

Informed consent cannot be completely monitored.

Debriefing could be avoided.

Privacy could be invaded.

When we say that science is parsimonious, we mean that:

Select correct option:

Scientific theories are based on laws.

We must be careful because causes can occur after specific effects.

The best scientific theories are those that offer the simplest explanations for a law.

Science accurately describes a wide range of behavior.

1-The researcher protects the confidentiality in following ways, Except;

Select correct option:

Obtaining signed nondisclosure documents.

Restricting access to data instruments where the respondent is identified.

Disclosure of data subsets.

Restricting access to respondent identification.

2-Which of the following should not be a consideration in writing a proposal?

Select correct option:

Understanding the problem situation

The appearance/form of the proposal

Responding to every element exactly as specified by the client

Knowing as much as possible about the proposal recipients

3-Under which of the following research method is not applicable?
Select correct option:

Health care
Business
Government offices
Imaginary worlds

4-Which of the following is a concept?
Select correct option:

Leadership.
Total Quality Management.
Human Resource Management.
All of the given options

5-In which way does a ratio scale measurement differ from an interval measurement?
Select correct option:

It measures larger or smaller scores on some underlying dimension.
It implies the existence of an absolute zero value.
It requires the mutual exclusivity of all cases.
It requires that exhaustiveness is applied to all observations.

6-If a researcher was studying the use of various instructional approaches to the "multiple intelligences" of his students, he is likely to be conducting which type of research?
Select correct option:

Basic
Applied
Evaluation
Grounded theory
applied

7-An operational definition is:
Select correct option:

One that bears no relation to the underlying concept.
An abstract, theoretical definition of a concept.
A definition of a concept in terms of specific, empirical measures.
One that refers to opera singers and their work.

8-In the statement 'an examination of the effects of discretionary behaviour on employee performance' employee performance is the:
Select correct option:

Independent variable
Dependent variable
Extraneous variable
Causal variable

9-Quantitative researcher's preoccupation with generalization is an attempt to:
Select correct option:

- Develop the law like findings of the natural sciences.
- Boost their chances of publication.
- Enhance the internal validity of their research.
- Demonstrate the complex techniques of statistical analysis.

10-Which one of the following tasks is NOT accomplished by theoretical framework?
Select correct option:

- Elaborate the relationship among the variables
- Explain the logic underlying the relationship between the variables.
- Describe the nature, and direction of the relationships among the variables.
- Relates the previous studies.

11-What is required if there is a chance that data could harm the respondents?
Select correct option:

- Change of results
- A signed form detailing the types of limits
- Free consent of respondents
- All of the given options

12-Which of the following is not an example of deception?
Select correct option:

- A part of the truth is not communicated to the respondent
- To observe code of ethics
- To leak out information regarding any confidential matter
- To create bias between respondents before the survey

13-Which of the the following is not included in Objects?
Select correct option:

- Tables
- People
- Books
- Weight**

14-The extent to which we can generalize the results of a study to other participants is called:
Select correct option:

- Sampling validity
- External validity**
- Construct validity
- Internal validity

15-If a nominal scale is used, it is permissible to calculate which of the following statistics?
Select correct option:

Mean
Range
Percentile
Mode

16-All of the following are true about theories, except;
Select correct option:

They organize and summarize existing knowledge about a topic.
They are tentative until the facts prove them true.
They provide possible explanations for the phenomenon under study.
They lead to testable hypotheses through the process of deduction.

17-Research questions are crucial because they will:
Select correct option:

Guide your decisions about what data to collect and from where.
Help you decide which research area interests you.
Ensure that your findings have external validity.
Prevent you from thinking about research strategies.

18-What is the basis of the Scientific Method?
Select correct option:

To test hypotheses in conditions that are conducive to its success.
To formulate a research problem and disprove the hypothesis.
To formulate a research problem, test the hypothesis in carefully controlled conditions that challenge the hypothesis.
To test hypotheses and if they are disproved, they should be abandoned completely.

19-Procedures determining what two issues are rarely used in quantitative research?
Select correct option:

Objectivity and subjectivity
Reliability and validity
Accessibility and replicability
Quality and quantity

20-Ms. Laiba has decided to use the test at the end of the textbook to measure the achievement levels of the students in her study. Which of the following BEST describes the chapter test?
Select correct option:

Definition
Construct
Variable
Operationalized variable



Question # 1 of 20

Measurement reliability refers to the:

Select correct option:

- Accuracy of the scores
- Consistency of the scores**
- Dependency of the scores
- Comprehensiveness of the scores

Question # 2 of 20

Which of the following should not be a consideration in writing a proposal?

Select correct option:

- Understanding the problem situation
- The appearance/form of the proposal
- Responding to every element exactly as specified by the client
- Knowing as much as possible about the proposal recipients

Question # 3 of 20

Which of the following is likely to reduce the validity of a test?

Select correct option:

- Unclear test directions
- Ambiguous test items
- Untaught items
- All of the given options**



Question # 4 of 20

Which of the following is most beneficial to read in an article?

Select correct option:

- Methods
- Introduction
- Figures
- References

Question # 5 of 20

The researcher protects the confidentiality in following ways, Except;

Select correct option:

- Obtaining signed nondisclosure documents.
- Restricting access to data instruments where the respondent is identified.
- Disclosure of data subsets.**
- Restricting access to respondent identification.

Question # 6 of 20

Which of the following is the least appropriate research problem?

Select correct option:

- Does studying Latin improve the standardized vocabulary test scores of seventh grade students?**
- Does drilling fifth grade students with multiplication facts improve their standardized test scores?
- What is the relationship between students' math attitudes and math achievement?
- Should students have access to controversial novels in school?

Question # 7 of 20

What is the basis of the Scientific Method?



Select correct option:

To test hypotheses in conditions that are conducive to its success.

To formulate a research problem and disprove the hypothesis.

To formulate a research problem, test the hypothesis in carefully controlled conditions that challenge

To test hypotheses and if they are disproved, they should be abandoned completely.

Question # 8 of 20

Which of the following is the BEST hypothesis?

Select correct option:

Students taking formative quizzes will perform better on chapter exams than students not taking these quizzes.

Taller students will have higher test scores than shorter students.

Students taught in a cooperative group setting should do better than students in a traditional class.

Students using laptops will do well.

Question # 9 of 20

How can we determine if a test has good validity?

Select correct option:

It produces the same result when it is given at different times to the same group of people

It produces the same result no matter which version of the test is used


It measures what it is supposed to measure

All of the questions on it can be answered accurately by the subject

Question # 10 of 20

Why, as scientists, do we not want to rely on authority for explanations?

Select correct option:



Those in authority are often wrong.

Those in authority cannot be challenged.

Those in authority rely too much on objective information.

Those in authority often have no common sense.

Question # 11 of 20

Which of the following is a concept?

Select correct option:

Leadership.

Total Quality Management.

Human Resource Management.

All of the given options

Question # 12 of 20)

Under which of the following research method is not applicable?

Select correct option:

Health care

Business

Government offices


Imaginary worlds

Question # 13 of 20)

Research may differ along a series of dimensions. Which of the following may be applied to this statement?

Select correct option:

The type of data collected.



The data-collection technique.

The level of manipulation used to elicit data collection.

All of the given options

Question # 14 of 20

Which of the following is the best hypothesis statement to address the research question, "What impact will the new advertising campaign have on Brand B usage?"

Select correct option:

The new advertising campaign will impact Brand B usage.

The new advertising campaign will increase Brand B trial.

The new advertising campaign will cause increased Brand B usage at the expense of Brand C.

The new advertising campaign will increase Brand B's market penetration.

Question # 15 of 20)

Bias is defined as;

Select correct option:

The distortion of responses based on gender, ethnicity, race, or language

A lack of validity

A lack of reliability

A poor interpretation of a student's score

Question # 16 of 20

If a researcher is studying the effect of using laptops in his classroom to ascertain their merit and worth, he is likely to use a(n) _____ design.

Select correct option:

Basic

Applied



Evaluation

Experimental

Question # 17 of 20

In which way does a ratio scale measurement differ from an interval measurement?

Select correct option:

It measures larger or smaller scores on some underlying dimension.

It implies the existence of an absolute zero value.

It requires the mutual exclusivity of all cases.

It requires that exhaustiveness is applied to all observations.

Question # 18 of 20

A _____ scale only assigns numbers to objects to classify the objects according to the characteristic of interest.

Select correct option:

Ratio

Nominal

Interval

Dichotomous

Question # 19 of 20

A review that only demonstrates familiarity with an area is rarely published but it often is part of an educational program.

Select correct option:

Integrative reviews

Theoretical reviews

Self-study reviews

Historical reviews



Question # 20 of 20

What is required if there is a chance that data could harm the respondents?

Select correct option:

Change of results

A signed form detailing the types of limits

Free consent of respondents

All of the given options

1. The _____ analysis is a technique for gathering and analyzing the content of a text:

1. **Content analysis**
2. Graphical analysis
3. Field analysis
4. Mathematical analysis

1. _____ is the strength or power of a message in a direction:

1. **Intensity**
2. Frequency
3. Direction
4. Space

1. _____ data refers to information gathered by someone other than the researcher conducting the present study:

- A. Primary data
- B. **Secondary data**
- C. Qualitative data
- D. Quantitative data

1. _____ research produces soft data:

- A. **Qualitative research**
- B. Quantitative research
- C. Descriptive research
- D. Applied research

1. _____ research produces hard data:

- A. Qualitative research
- B. **Quantitative research**
- C. Descriptive research
- D. Applied research

1. _____ research is based on naturalism:

- A. **Field research**
- B. Descriptive research
- C. Basic research

D. Applied research

1. _____ interview is always with one respondent alone:

- A. **Survey interview**
- B. Field interview
- C. Telephone interview
- D. Electronic interview

1. **Historiography is the method of doing _____ research or of gathering & analyzing historical evidence:**


- A. **Historical research**
- B. Basic research
- C. Applied research
- D. Action research

1. **Historical comparative researches often use _____ sources or different data types in combination:**

- A. Primary sources
- B. **Secondary sources**
- C. Internal sources
- D. External sources

1. _____ is a comprehensive description and analysis of a single situation in a number of specific situations or cases:

- A. **Case study**
- B. Content analysis
- C. Field research
- D. None of the given options



Rationalism is the application of:

Select correct option:

- Research solution
- Logic and arguments
- Reasoning
- Previous findings

Question # 3 of 10

Total Marks: 1

The independent variable is;


Select correct option:

- The variable manipulated in order to observe its effects
- The variable that is measured
- The free spirited variable
- A confounding variable

What research is?

Select correct option:

- A lab experiment
- A report
- A systematic Enquiry
- A procedure



If a researcher is studying the effect of using laptops in his classroom to ascertain their merit and worth, he is likely conducting which type of research?

Select correct option:

- Basic
- Applied
- Evaluation
- Experimental

The elaboration of the variables in the theoretical framework addresses which type of questions?

Select correct option:

- Why we expect certain relationships to exist
- How we expect certain relationships to exist
- Both of the given questions
- None of the given questions

What is an hypothesis?

Select correct option:

- A prediction of a relationship between certain variables.
- An experiment that tests certain predictions.
- An independent variable.
- A dependent variable

**Question # 9 of 10****Total Marks: 1**

A literature review requires;

Select correct option:

- planning
- clear writing
- good writing
- All of the given option

Question # 10 of 10**Total Marks: 1**

12. Which of the following true about the relationship between theory building and data collection?

Select correct option:

- When studies come out as expected, inductive support for the theory is gained.
- If an experiment fails, discarding the experiment is an example of affirming the consequent.
- When a hypothesis is not supported, virtually nothing has been learned about the theory.
- A good theory will be inclusive enough to explain every possible research outcome.