

Nature of Science

Sr	Questions	Answers Choice
1	When studying how air conditioners cool your house, then it is	A. Optics B. Nuclear Physics C. Thermodynamic D. Electromagnetism
2	What is the ultimate truth of a scientific method.	A. Hypothesis B. Experimentation C. Law D. Theory
3	The statement "If I do not study for this test, then I will not get good grade" is an example of.	A. Prediction B. Law C. Theory D. Observation
4	Which branch of science plays vital role in technology and engineering.	A. Biology B. Chemistry C. Physics D. Geology
5	The Branch of Physics that is most important when studying how glasses help people see.	A. Optics B. Thermodynamics C. Electromagnetism D. Mechanics
6	Which branch of science plays an important role in engineering.	A. Biology B. Physics C. Chemistry D. Life Science
7	The working of refrigeration and air conditioning involves.	A. Electromagnetism B. thermodynamics C. Climate science D. Mechanics
8	The branch of Physics that deals with the particles such as neutrons and protons.	A. Electricity B. Plasma Physics C. Nuclear Physics D. Solid state Physics
9	A hypothesis	A. May or may not be testable B. Is supported by evidence C. Is a possible answer to a question D. All of these
10	A user friendly software application of smart phone use	A. Laser Technology B. Information Technology C. Medical Technology D. Electronic technology
11	Which of the following are methods of investigation	A. Research B. Experimentation C. Observation D. All of these
12	Physics is a branch of	A. Biological science B. Physical Science C. Life science D. Social science
13	What is the best definition of the term "theory", as it is used in science.	A. A theory is a guess or hunch about something that has occurred in nature B. A theory is a comprehensive set of ideas explaining a phenomenon in nature C. A theory is based on verifiable laws and can be proven true D. A theory is a hypothesis that uses laws and observation to make an assumption.
14	Physics is one of the branches of.	A. Life science B. Social science C. Physical science D. Biological science

C. Biological sciences
D. Physical sciences

15 Automobile technology is based on

A. Thermodynamics
B. Acoustics
C. Electromagnetism
D. Optics

16 Which Statement below correctly identifies the difference between laws and theories.

A. Laws describe phenomena , while theories explain why phenomena exist
B. Laws are a statement of fact, while theories are statement of opinion
C. Laws explain why phenomena exist, while theories explain how
D. Laws are a prediction of phenomena, while theories are an explanation.

17 A graph of an organized data is an example

A. Collecting data
B. Analyzing data
C. Asking question
D. Forming a hypothesis

18 Why do scientists develop a hypothesis before conducting research.

A. Hypotheses help a researcher decide which observations to record and which to ignore
B. It give them direction on how to interpret the results of their research
C. It helps to predict outcomes and define the parameters of the research
D. Hypotheses give the researcher an outcome to shape their work around

19 The color of a door is brown, is an example of.

A. Law
B. Prediction
C. Observation
D. Hypothesis