

## Nature of Science

Sr	Questions	Answers Choice
1	Which branch of science plays vital role in technology and negineering.	A. Biology B. Chemistry C. Physics D. Geology
2	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 researcherr an outcome to shape their work around
3	The statemetn "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	Physics is a branch of	A. Biological science B. Physical Science C. Life science D. Social science
5	What is the best definitin of the term "theory", as it us used in sciecne.	A. A theory is a guess or hunch about somethig 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.
6	Physics is one of the branches of.	A. Life science B. Social science C. Biological sciences D. Physical sciecnas
7	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
8	Which branch of science plays an important role in engineering.	A. Biology B. Physics C. Chemistry D. Life Science
9	A user frindly software application of smart phone use	A. Laser Technology B. Information Technology C. Medical Technology D. Electronic technology
10	The color of a door is brown, is an example of.	A. Law B. Prediction C. Observation D. Hypothesis
11	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
12	Which of the following are methods of investigation	A. Research B. Experimentation C. Observation D. All of these
13	What is the ultimate truth of a scientific method.	A. Hypothesis B. Experientation C. Observation D. Prediction

C. Law  
D. Theroy

14 Which Statemtn below correctly identifies the differecne between laws and theories.

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

15 The Branch of Physics that is most important when studying how glasses help people see.

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

16 A graph of an organized data is an example

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

17 The workig of refrigeration and air conditionig involves.

A. Electromagnetism  
B. thermodynamics  
C. Climate science  
D. Mechanics

18 When studying how air conditiners cool your house, then it is

A. Optics  
B. Nuclear Physics  
C. Thermodynamic  
D. Electromagnetism

19 Automobile technology is based on

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