

Nature of Science

Sr	Questions	Answers Choice
1	Why do scientists develop a hypothesis before conducting research.	<p>A. Hypotheses help a researcher decide which observations to record and which to ignore</p> <p>B. It give them direction on how to interpret the results of their research</p> <p>C. It helps to predict outcomes and define the parameters of the research</p> <p>D. Hypotheses give the researcherr an outcome to shape their work around</p>
2	Which branch of science plays an important role in engineering.	<p>A. Biology</p> <p>B. Physics</p> <p>C. Chemistry</p> <p>D. Life Science</p>
3	The Branch of Physics that is most important when studying how glasses help people see.	<p>A. Optics</p> <p>B. Thermodynamics</p> <p>C. Electromagnetism</p> <p>D. Mechanics</p>
4	What is the ultimate truth of a scientific method.	<p>A. Hypothesis</p> <p>B. Experimentation</p> <p>C. Law</p> <p>D. Theroy</p>
5	The branch of Physics that deals with the particles such as neutrons and protons.	<p>A. Electricity</p> <p>B. Plasma Physics</p> <p>C. Nuclear Physics</p> <p>D. Solid state Physics</p>
6	A user frindly software application of smart phone use	<p>A. Laser Technology</p> <p>B. Information Technology</p> <p>C. Medical Technology</p> <p>D. Electronic technology</p>
7	A graph of an organized data is an example	<p>A. Collecting data</p> <p>B. Analyzing data</p> <p>C. Asking question</p> <p>D. Forming a hypothesis</p>
8	What is the best definitin of the term "theory", as it us used in sciecne.	<p>A. A theory is a guess or hunch about somethg that has occurred in nature</p> <p>B. A theory is a comprehensive set of ideas explaining a phenomenon in nature</p> <p>C. A theory is based on verifiable laws and can be proven true</p> <p>D. A theory is a hypothesis that uses laws and observation to make an assumption.</p>
9	Automobile technology is based on	<p>A. Thermodynamics</p> <p>B. Acoustics</p> <p>C. Electromagnetism</p> <p>D. Optics</p>
10	Physics is one of the branches of.	<p>A. Life science</p> <p>B. Social science</p> <p>C. Biological sciences</p> <p>D. Physical sciecnes</p>
11	Which of the following are methods of investigation	<p>A. Research</p> <p>B. Experimentation</p> <p>C. Observation</p> <p>D. All of these</p>
12	The color of a door is brown, is an example of.	<p>A. Law</p> <p>B. Prediction</p> <p>C. Observation</p> <p>D. Hypothesis</p>
13	The statemetn "If I do not studv for this test. then I will not aet ood grade" is an example of.	<p>A. Prediction</p> <p>B. Law</p>

		C. Theory D. Observation
14	Which branch of science plays vital role in technology and engineering.	A. Biology B. Chemistry C. Physics D. Geology
15	The work of refrigeration and air conditioning involves.	A. Electromagnetism B. thermodynamics C. Climate science D. Mechanics
16	Physics is a branch of	A. Biological science B. Physical Science C. Life science D. Social science
17	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
18	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.
19	When studying how air conditioners cool your house, then it is	A. Optics B. Nuclear Physics C. Thermodynamic D. Electromagnetism