

Chapter 1

End-of-Chapter Questions

1. Explain the difference between hypothesis and theory.
2. Explain the difference between observation and experimentation
3. Provide the term for each of the following concepts:
 - (a) the study of rocks and of ancient life-forms;
 - (b) the study of the chemical processes that occur in living organisms.
4. Provide the term for each of the following concepts:
 - (a) the study of the laws and theories of the universe;
 - (b) the study of the chemical substances in rocks and minerals.
5. Provide the name for each of the following branches of chemistry:
 - (a) the study of numerical values associated with chemical substances;
 - (b) the determination of what chemical substances occur in a sample.
6. Provide the name for each of the following branches of chemistry:
 - (a) the study of substances predominantly containing the chemical element, carbon;
 - (b) the study of substances containing all the other chemical elements.
7. What is the name for the chemical development of new substances for specific uses?
8. What is the name for the discovery of chemical substances in plants or animals which can be used as medicines?