1. Discuss in detail the discovery of the “cell” by Robert Hooke.
2. Discuss the contributions of other scientists leading to the development of the cell theory.
3. State the cell theory.
4. Name the three structures common to most cells.
5. Discuss the structure and function of the nucleus.
6. Distinguish between the cell membrane and the cell wall in both structure and function.
7. State the basic differences between eukaryotic and prokaryotic cells.
8. Define organelle.
9. Compare and contrast the functions of the mitochondria and chloroplasts.
10. Discuss the function of the two types of endoplasmic reticulum.
11. Name the two major components of the cytoskeleton and discuss their importance.
12. Discuss the processes of diffusion and osmosis.
13. Distinguish between passive and active transport.
14. Why is it important for the cell membrane to be selectively permeable?
15. Define cell specialization and discuss its importance to all multicellular organisms.
16. Explain the four levels of organization that make up multicellular organisms.
17. Give two examples of each level of organization.