

LSF:Chapter Two Test Review

I. Section One: Cell Structure

A. Identify the names and functions of each part of the cell.

1. cell membrane
2. cytoplasm
3. cell wall
4. organelle
5. nucleus
6. chloroplast
7. mitochondria
8. ribosome
9. endoplasmic reticulum
10. Golgi body
11. tissue
12. organ
13. organ system
14. vacuole
15. nucleolus
16. lysosomes

B. Explain how important a nucleus is in a cell.

C. Compare tissues, organs, and organ systems.

II. Section Two: Viewing Cells

A. Identify the different parts of a compound microscope.

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B. Describe the differences between microscopes.

1. Simple
2. Compound
3. Stereomicroscope
4. Electron

C. Compare the differences between the compound light microscope and the electron microscope.

D. Explain how the magnification of a microscope is calculated.

E. Summarize the discoveries that led to the development of the cell theory.

1. Antonie van Leewenhoek (Mid 1600's)
2. Robert Hooke (1665)
3. Matthias Scheiden (Early 1800's)
4. Theodor Schwann (Early 1800's)
5. Rudolf Virchow (Mid to Late 1800's)

F. Relate the cell theory to modern biology.

III. Section Three: Viruses

A. Explain how a virus makes copies of itself.

1. Host cell
2. Virus

B. Identify the benefits of vaccines.

C. Investigate some uses of viruses.

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D. What is the difference between a latent and an active virus?

E. Who is Edward Jenner?

F. Discuss public health measures for preventing viral diseases.

G. What is gene therapy?

H. What is the difference between an antibiotic and an antiviral drug?