The Endomembrane System Multiple Choice Test

Name: _____ Date: _____ Class: _____

Instructions: Choose the best answer for each question.

1. What is the main function of the endomembrane system?

A. Producing energy for the cell

B. Supporting movement in the cell

C. Synthesizing, packaging, and transporting materials

D. Controlling cell division

2. Which organelle is responsible for modifying and packaging proteins?

A. Ribosome

B. Golgi apparatus

C. Nucleus

D. Mitochondrion

3. The rough endoplasmic reticulum (RER) is covered with:

A. Vacuoles

B. Lysosomes

C. Ribosomes

D. Centrioles

4. What is the primary function of the smooth endoplasmic reticulum (SER)?

A. Protein synthesis

B. Lipid synthesis and detoxification

C. ATP production

D. DNA storage

5. Which organelle contains digestive enzymes used to break down waste?

A. Vacuole

B. Chloroplast

C. Lysosome

D. Ribosome

6. Ribosomes are responsible for:

A. Lipid production

B. Protein synthesis

C. Waste storage

D. Cell movement

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7. Transport vesicles move materials from the:

A. Cytoplasm to nucleus

B. Golgi apparatus to mitochondria

C. Endoplasmic reticulum to the Golgi apparatus

D. Cell membrane to ribosomes

8. Which structure acts as the boundary of the cell and controls what enters and leaves?

A. Cell membrane

B. Nucleolus

C. Cytoskeleton

D. Chromosome

9. The Golgi apparatus receives proteins from the:

A. Lysosome

B. Smooth ER

C. Rough ER

D. Vacuole

10. Which organelle stores water, nutrients, and wastes?

A. Vacuole

B. Ribosome

C. Centriole

D. Chloroplast

11. Which part of the endomembrane system is directly involved in protein production?

A. Smooth ER

B. Ribosomes on rough ER

C. Vacuoles

D. Lysosomes

12. The endomembrane system is mainly found in:

A. Prokaryotic cells only

B. Eukaryotic cells

C. Viruses

D. Bacteria only

13. What is the function of vesicles?

A. Produce DNA

B. Break down glucose

C. Transport substances within the cell

D. Create ribosomes

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14. Which organelle helps detoxify harmful substances in the cell?

A. Smooth ER

B. Ribosome

C. Golgi apparatus

D. Nucleus

15. Which organelle ships proteins to their final destination?

A. Mitochondrion

B. Golgi apparatus

C. Nucleus

D. Chloroplast

16. Lysosomes are most common in:

A. Plant cells only

B. Animal cells

C. Bacterial cells

D. Fungal cells only

17. Which statement best describes the rough ER?

A. It stores water

B. It lacks ribosomes

C. It helps make and transport proteins

D. It controls the cell

18. The cell membrane is made mainly of:

A. Proteins and nucleic acids

B. Lipids and proteins

C. Sugars and DNA

D. ATP and enzymes

19. Which organelle is responsible for sorting and packaging materials?

A. Golgi apparatus

B. Ribosome

C. Nucleus

D. Mitochondrion

20. What happens to proteins after they leave the Golgi apparatus?

A. They are destroyed immediately

B. They are sent to different locations in or outside the cell

C. They return to the nucleus

D. They become DNA

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