DIAGNOSTIC TEST CELL ORGANELLES

Multiple Choice Questions

- Cells that do not have a distinct nucleus are called:
 - A. eukaryotic
 - B. prokaryotic
 - C. multicellular
- 2. Cells that have internal membranes surrounding specialised organelles are:
 - A. eukaryotic
 - B. prokaryotic
 - C. unicellular
- 3. The controlling organelle within a cell is the:
 - A. nucleolus
 - B. gene
 - C. nucleus
- 4. The nucleolus is made of large nucleic acids called:
 - A. DNA
 - B. RNA
 - C. REM
- 5. The jellylike fluid that contains nutrients in a cell is the:
 - A. cytoplasm
 - B. vacuole
 - C. nucleus
- 6. Small organelles that are responsible for protein synthesis are the:
 - A. ribosomes
 - B. RNA
 - C. genes
- 7. The system of membranes that help transport chemicals such as proteins through the cell is the:
 - A. golgi body
 - B. ribosome
 - C. endoplasmic reticulum

- The organelles that are responsible for collecting, sorting, processing and distributing proteins and carbohydrates are the:
 - A. golgi bodies
 - B. ribosomes
 - C. plastids
- 9. The organelle found in both animal and plant cells that is clear but contains dissolved nutrients is the: A. vacuole
 - B. cytoplasm C. centriole
- 10. The 'powerhouse' of the cell that generates the cell's energy-rich ATP molecules is the:
 - A. mitochondrion
 - B. chloroplast
 - C. nucleus

True-False Questions

- 11. The mitochondrion is responsible for photosynthesis.
- 12. Chloroplasts contain green chlorophyll and are responsible for photosynthesis.

 13. All cells have a cell wall but only
- plant cells have a cell membrane.
- 14. Metabolism is all the chemical reactions occurring in an organism.
- 15. An electron microscope is used to view cell organelles.

Short Answer Questions

- 16. What are the main differences between animal and plant cells?
- 17. What organic macromolecules are found in cytoplasm?
- 18. Reorder the following from smallest to largest - cell, organ, organism, tissue, atom, molecule, system, organelle
- If prokaryotic cells such as bacteria do not have organelles, how do they function?
- 20. How has technology advanced cell knowledge?