Quiz 4.1 - Characteristics of Cells

1. What is the smallest structural and functional unit of living things?

- A. cells C. tissues
- D. organelles B. cytoplasm

2. Who was the first person to see and name cells?

- A. Charles Darwin C. Bill Nye
- B. Anton van Leeuwenhoek D. Robert Hooke

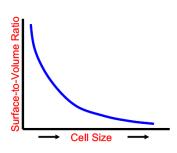


3. Where do cells come from?

- A. organelles C. other cells
- **D.** blood B. animalcules

4. The surface-to-volume ratio of a cell limits

- A. the number of organelles that the cell has.
- B. the size of the cell.
- C. where the cell lives.
- **D.** the types of nutrients that a cell needs.



5. Anton van Leeuwenhoek was the first person to see _

A. cells

C. DNA

B. organelles

D. bacteria and yeast

6. Which of the following statements about cells is FALSE?

- A. All organisms are composed of one or more cells.B. All cells come from existing cells.
- **C.** All cells have a nucleus.
- **D.** The cell is the basic unit of life in all living things.

7. What holds the cell together and acts as a protective barrier between the outside and inside of the cell?

- A. cell membrane
- C. DNA

B. nucleus

- **D.** cytoplasm
- 8. What are the "little organs" in a cell that are specialized to perform specific jobs?
- A. bacteria

C. organelles

B. cytoplasm

D. cell membrane

9. What do we call the fluid or "juice" inside the cell?

A. DNA

C. cytoplasm

B. chlorophyll

D. nucleus

10. What do we call the membrane-covered organelle found in plant and animal cells that contains the DNA?

- A. cytoplasm
- B. nucleus
- C. DNA membrane
- D. prokaryote

11. What type of cell does NOT have a nucleus?

A. prokaryotic cellB. animal cell

C. eukaryotic cell

D. plant cell

(made of)

12. Which of the following organisms are composed of eukaryotic cells?

A. animals

C. fungi

B. plants

D. all of the above

13. Which of the following is NOT a characteristic of ALL cells?

A. cell membrane

C. organelles & cytoplasm

B. circular DNA

D. gentic material