Students: Practice with all these questions!

Also, practice with the Kahoot game questions we did in class: https://play.kahoot.it/#/k/6ea14f03-9a5c-4bd6-b001-92864cbb1bd7 https://play.kahoot.it/#/k/b0f459e2-eea1-47ff-9bb4-011ed032e5f4

Practice, practice, practice ... And you'll do great!

-Mr. Watkins

## **Halfway Test**

## **Practice Questions**

Biology | FHS

Mr. Watkins

- 1. The sharing of electrons results in \_\_\_\_\_ bonding.
- a. Covalent b. Ionic
- c. Hydrogen d. Atomic
- 2. One water molecule bonds with another using \_\_\_\_\_ bonds.
- a. Covalent b. Ionic
- c. Hydrogen d. Atomic
- 3. Water's attraction to other molecules is called...
- 4. What property of water is responsible for the leaf's ability to float atop the water?
- a. Water is a solvent b. Heat storage
- c. Ice formation d. Surface tension

5. Aside from pH, which factor greatly impacts an enzyme's ability to function due to the enzyme being denatured?

- a. Temperature b. the number of enzymes present in a solution.
- c. the size of the enzyme.
- d. the presence of an inhibitor.
- 6. Enzymes \_\_\_\_\_\_ the rate of a chemical reaction.
- 7. Which of the following are the building block for proteins?
- a. Monosaccharides b. Amino acids
- c. Nucleic acids d. Phosphates
- 8. Which of the following are the building block for carbohydrates?
- a. Monosaccharides b. Amino acids
- c. Nucleic acids d. Phosphates
- Match the function with the appropriate macromolecule
- 9. Proteins
- 10. Carbohydrates
- b. forms important membranes throughout the cell
  c. regulates cell processes
- Nucleic acids
  Lipids

d. links nitrogenous bases e. stores genetic information

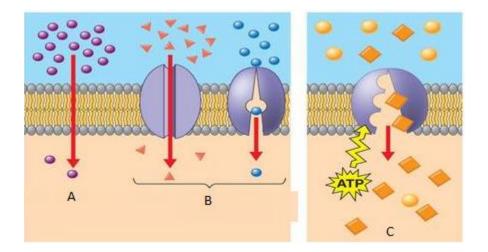
a. body's quickest source of energy

- 13. What are the 3 parts of the cell theory?
- 14. Which of the following is found in plant but not animal cells?
- a. Mitochondrion

- b. Smooth ER
- c. Golgi Apparatus d. Cell wall

15. Which organelle acts like a post office for the cell, packaging and processing proteins to be transported throughout the cell?

- 16. Where is the DNA located in the cell?
- 17. What is the function of the chloroplast?
- 18. Which of the following is responsible for making proteins?
- 19. Osmosis is the movement of \_\_\_\_\_.
- 20. In osmosis, movement goes from a \_\_\_\_\_\_ solution to a \_\_\_\_\_\_ solution.
- a. Isotonic, hypertonic
- c. Hypotonic, hypertonic
- b. Hypertonic, hypotonicd. Hypertonic, hypotonic



- 21. What kind of movement across the cell membrane is depicted in letter A?
- 22. What kind of movement across the cell membrane is depicted in letter B?
- 23. What kind of movement across the cell membrane is depicted in letter C?
- 24. What is the end goal of DNA replication?
- a. similar strands of DNA
- c. New DNA sequences
- b. Separate the DNA double helix
  - d. identical strands of DNA

25. If a DNA is 30% adenine, what percentage of thymine would you expect to find?

- a. 20% b. 15%
- c. 30% d. 40%
- 26. Which of the following make up a nucleotide?
- a. Phosphate, sugar, amino acid b. Nitrogenous base, phosphate, sugar
- c. Nucleic acid, hydrogen bonds, sugar d. Carbohydrates, phosphate, sugar

27. During which of the following phases does DNA replication take place?

- a. G1 b. G2
- c. S d. M
- 28. During which phase does cell division occur?
- a. G1 b. G2
- c. S d. M
- 29. Which phase is pictured to the right?

30. During which phase do chromosomes line up in the middle of the cell?

31. The two stages of cell division are\_\_\_\_\_ and \_\_\_\_\_.

- a. Mitosis and S phase
- b. Cytokinesis and telophase
- c. Mitosis and cytokinesis d. Anaphase and metaphase

32. The end goal of cell division is two daughter cells with \_\_\_\_\_\_ genetic information.

a. Similar b. Different

c. Complementary d. Identical

- 33. A prokaryote's DNA is located in the \_\_\_\_\_\_ while a eukaryotes DNA is located in the \_\_\_\_\_\_.
- a. Ribosomes, nucleolus b. Cytoplasm, nucleus
- c. Nucleolus, nucleus d. Nucleus, cytoplasm
- 34. In passive diffusion, substances always move
  - a. from an area with more of the molecules to an area with fewer of the molecules
  - b. from an area of higher concentration to an area of lower concentration
  - c. from an area of lower concentration to an area of higher concentration
  - d. from an area with fewer of the molecules to an area with more of the molecules
- 35. What are prokaryotes also known as?

