

**Midterm Review Sheet #3****Multiple Choice**

Identify the letter of the choice that best completes the statement or answers the question.

- \_\_\_\_\_ 1. Which of the following is NOT found in animal cells?
- cell wall
  - cell membrane
  - lysosomes
  - vacuole
- \_\_\_\_\_ 2. Which of the following statements is NOT part of the cell theory?
- The most basic component of any organism is the cell.
  - All cells originate from other cells.
  - All cells have a nucleus and a cell membrane.
  - All living things are made up of one or more cells.
- \_\_\_\_\_ 3. Which of the following is NOT found in plant cells?
- lysosome
  - ribosome
  - cell membrane
  - chloroplast
- \_\_\_\_\_ 4. Which of the following contains enzymes that can break down particles in vacuoles?
- mitochondria
  - endoplasmic reticulum
  - lysosomes
  - None of the above
- \_\_\_\_\_ 5. Which part of a cell manufactures proteins?
- nucleolus
  - ribosomes
  - cell membrane
  - vacuole
- \_\_\_\_\_ 6. A person has about 200 different kinds of cells, each specialized to do a particular job. This means that the person
- does not need tissues.
  - does not need organs.
  - is multicellular.
  - is unicellular.
- \_\_\_\_\_ 7. You are made up of about 100 trillion cells; however, you began as
- an organ.
  - a glob of gooey cytoplasm.
  - an organelle.
  - a single cell.
- \_\_\_\_\_ 8. Which of the following best describes the function of a plant's leaf?
- sucking up water
  - capturing light energy to make food
  - getting minerals from the soil
  - only providing shelter for small animals
- \_\_\_\_\_ 9. \_\_\_\_\_ are the basic units of living things.
- Organisms
  - Tissues
  - Cells
  - Organs
- \_\_\_\_\_ 10. Which of the following best describes organelles?
- Only certain kinds of cells have organelles.
  - There is only one kind of organelle.
  - All organelles are surrounded by membranes.
  - Organelles enable a cell to live, grow, and reproduce.

- \_\_\_\_\_ 11. Why is an elephant larger than a human?
- It has larger cells than a person does.
  - It has a larger surface-to-volume ratio of its cells than a person does.
  - It has more cells than a person does.
  - None of the above
- \_\_\_\_\_ 12. Prokaryotic cells do NOT have
- DNA.
  - a nucleus.
  - a cell membrane.
  - ribosomes.
- \_\_\_\_\_ 13. When compared to a prokaryotic cell, a eukaryotic cell
- has more types of organelles.
  - has DNA that is linear rather than circular.
  - stores its DNA in a nucleus rather than in the cytoplasm.
  - All of the above
- \_\_\_\_\_ 14. Which of the following best describes the characteristics of cells?
- Prokaryotic cells are the world's smallest cells and probably were the first cells on Earth.
  - Eukaryotic cells have many membrane-covered organelles, allowing many different chemical processes to occur at the same time.
  - All plants, animals, fungi, and protists are made up of eukaryotic cells.
  - All of the above
- \_\_\_\_\_ 15. A \_\_\_\_ keep(s) the cytoplasm inside and allow nutrients in and waste products out.
- cell membrane
  - chloroplast
  - nucleus
  - mitochondria
- \_\_\_\_\_ 16. The smallest and most abundant organelle is the
- ribosome.
  - nucleus.
  - endoplasmic reticulum.
  - vacuole.
- \_\_\_\_\_ 17. Food molecules are broken down to release energy by the
- ribosomes.
  - endoplasmic reticulum.
  - mitochondria.
  - chloroplasts.
- \_\_\_\_\_ 18. Most of the ATP produced by a cell is made in the
- ribosomes.
  - endoplasmic reticulum.
  - mitochondria.
  - chloroplasts.
- \_\_\_\_\_ 19. The \_\_\_\_ is an organelle that is found only in plants and algae.
- ribosome
  - endoplasmic reticulum
  - mitochondria
  - chloroplast
- \_\_\_\_\_ 20. Most energy in eukaryotic cells is produced in the
- mitochondria.
  - endoplasmic reticulum.
  - nucleus.
  - chloroplasts.
- \_\_\_\_\_ 21. \_\_\_\_ is what makes chloroplasts green.
- A chromatid
  - Chlorophyll
  - Cholesterol
  - A chromosome