BIOLOGY

1. Plant cells have what organelle that functions as storage, waste disposal, and protection?

    Vacuoles

2. What are the site of cellular respiration? (eukaryotic cells)

    Mitochondria

3. What are plasma membranes mostly made of?

    Lipids

4. What is the magnification of an ocular lens on a microscope?

    10x

5. What is the main component of blood plasma?

    Water

6. What is the first step in metabolism of food to cellular energy?

    Glycolysis

7. How many chromosomes do sperm and egg produce in meiosis?

    23

8. How many chromosomes do sperm and egg produce in mitosis?

    46

9. What helps the cells shape and cell to adapt?

Cytoskeleton

10. What gives the cell the ability to move and proper?

Microtubules

11. What drives the cell/ pushes it forward?

Propulsion

12. All humans have how many pairs of chromosomes?

23 pairs

13. What cycle is the sequence of reactions by which most living cells generate general energy during the process of aerobic respiration; it takes place in the mitochondria.

The Kreb Cycle

14. What kind of cells are in meiosis (sex cells)?

Gametes

15. What organelle pushes water out of the cell?

Vacuoles (contractile)

16. What is an animal cell?

Eukaryotic

17. Movement of ions and other molecular substances across cell membranes without the need of energy is what?

Passive transport

18. The plasma membrane is made of/ composed of what?

Lipids, proteins, and carbohydrates

19. What organelle is responsible for packaging, processing, and shipping?

Golgi Apparatus

20. What part of the microscope is the side going to be placed on?

Stage

21. What holds the genetic code for each person?

DNA

22. What is DNA made of?

Nucleotides

23. What is the most important component of the cell, contributing to protection, communication, and the passage of substances into and out the cell?

The cellular membrane

24. The mRNA strand is what to the DNA strand?

Identical except T is replaced with U

25. What organelle is responsible for protein synthesis and membrane production?

Endoplasmic reticulum (rough ER)