BIOLOGY TEST #2 (Chapters 4-5)

1. What is a group of cells called that all perform the same function?

2. What is a group of tissues that all have the same function called?

3. What are the units inside cells that perform certain specific functions called?

4. What features distinguish a eukaryotic cell?

5. If you were standing inside a cell and saw the DNA free-floating in the cytoplasm, in what type of cell would you be standing?

6. What is biosynthesis?

7. True or False? Animal cells are protected from the environment by their cell membrane and cell wall.

8. What is meant by the lipid bilayer?

9. What is meant by semi-permeable?

10. What is cellular transport?

11. What are two molecules that can pass through the cell membrane by diffusion?

12. What is the difference between active transport and passive transport?

13. True or False? Gated channel transport, endocytosis, and exocytosis are all forms of active transport.

14. True or False? Diffusion occurs through the random movement of molecules down their concentration gradients.

15. Describe how a protein pump works, and why it is considered active transport.

16. Which cell type is structurally more complex: eukaryote, or prokaryote. Why?

17. What is the cytosol, and what are its components?

18. What functions does the cytoskeleton serve?

19. How many lipid bilayers make up the nuclear membrane?

20. What is the structure and function of ER?

21. What is the function of a vacuole?

22. Where is the middle lamella found and what is its function?

23. If you were standing on the outside of a cell and found that the molecules around you were fibronectins, collagen, and proteoglycans, would you be standing in a plant or animal organism?