Name _____ **Period** _____

Ms. Foglia **Date** _____

AP: CHAPTER 8: MEMBRANES

1. What evidence supports the fluid mosaic model of the cell membrane? _____

   _____

2. What is meant by membrane fluidity? _____

   _____

3. How is fluidity reduced in animal cells? _____

   _____

4. Describe the orientation of the membrane proteins

   a. Peripheral _____

   b. Integral _____

5. How are the two sides of the membrane different? _____

   _____

6. List and briefly define the roles of the membrane proteins.

   a. _____

   b. _____

   c. _____

   d. _____

   e. _____

   f. _____

7. What membrane structures are important for cell-cell recognition? _____

   _____

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8. Which molecules easily cross the membrane? _____

9. How are molecules transported that do not easily cross the membrane? _____

_____

10. Define the following:

    a. Diffusion _____

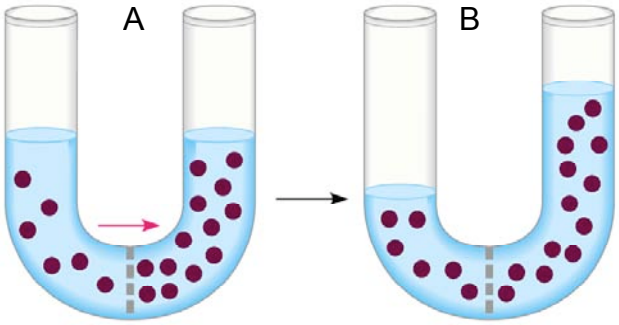
    b. Osmosis _____

    c. Hypotonic _____

    d. Hypertonic _____

    e. Isotonic _____

11. What is happening in the diagram below?



12. What do cells do when placed in solutions that are:

    a. Hypotonic _____

    b. Hypertonic _____

    c. Isotonic _____

13. How does the Paramecium maintain osmoregulation? _____

_____

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14. What is meant by facilitated diffusion? _____

_____

15. How do active and passive transport differ? _____

_____

_____

16. The sodium-potassium pump uses _____ to pump _____ out of the cell and _____ into the cell.

17. How does the membrane generate voltage? _____

_____

18. What can the cell do with the voltage generated in the membrane? _____

_____

19. Define cotransport and give an example. _____

_____

_____

20. What is the difference between exocytosis and endocytosis? _____

_____

_____

21. Describe an example of receptor-mediated endocytosis. _____

_____

_____