**Exam 3 Practice Questions:** *Email Ms. Taylor if you need help- TAYLOR@whsad.org*

1. How was the beaker set up in the state lab? What was inside the “cell,” and what was in the beaker?
2. What color was the bag and what color was the beaker to begin with?
3. What color did the bag turn and WHY?
4. What were the results for glucose, and how did you find this out?
5. What happened to onion cells in salt water AND WHY?
6. What happens to cells in distilled water and WHY?
7. Draw and onion cell in salt water. Label cell wall, cell membrane, and cytoplasm.
8. What does “selectively permeable” mean?
9. Name 3 molecules that are permeable to the cell membrane and explain WHY they are permeable.
10. Name 1 molecule that is NOT permeable to the cell membrane and explain WHY it isn’t.
11. What is a chemical indicator?
12. Explain starch indicator
13. Explain glucose indicator.
14. What is passive transport?
15. What are the 2 types of passive transport?
16. How do you know if osmosis has occurred?
17. What is active transport?
18. Explain why an IV made from pure water could cause serious damage to a patient.
19. Explain why eating popcorn makes you feel thirsty.
20. What is the chemical equation for photosynthesis?
21. In which organelle does photosynthesis occur?
22. When will molecules stop diffusing?