**CELL REVIEW – WEEK ONE**

**DIRECTIONS**: PLEASE ANSWER THE QUESTIONS IN COMPLETE SENTENCES ON A LINED SHEET OF PAPER.

1. EXPLAIN IN YOUR OWN WORDS WHAT THE CELL THEORY IS.
2. WHAT ARE THE THREE POSTULATES OR TENANTS OF THE CELL THEORY?
3. LOOK AT THE CELERY WITH THE FOOD DYE IN IT WHAT DO YOU NOTICE ABOUT THE ACTION THAT HAS TAKEN PLACE?
4. WHAT IS THE INDEPENDENT VARIABLE IN THIS EXPERIMENT?
5. WHAT IS THE DEPENDENT VARIABLE IN THIS EXPERIMENT?
6. WHAT DOES THE CELERY **NOT IN THE FOOD DYE** SERVE AS?
7. WHAT DO YOU PROPOSE WOULD HAPPEN WITH CELERY ONLY IMMERSED IN WATER? GIVE REASONING FOR YOUR ANSWER.
8. WHAT IS THE ENDOSYMBIONANT THEORY?
9. EXPLAIN THE DIFFERENCE BETWEEN A PROKARYOTE AND A EUKARYOTE?
10. GIVE AN EXAMPLE OF A PROKARYOTE?
11. GIVE AN EXAMPLE OF A EUKARYOTE?
12. EXPLAIN WHAT OSMOSIS IS?
13. IS OSMOSIS ACTIVE OR PASSIVE?
14. EXPLAIN WHAT DIFFUSION IS?
15. IS DIFFUSION ACTIVE OR PASSIVE?
16. EXPLAIN WHAT ACTIVE TRANSPORT IS?
17. HOW DOES ACTIVE TRANSPORT DIFFER FROM BOTH OSMOSIS AND DIFFUSION?
18. WHAT ROLE DO PROTEINS PLAY IN ACTIVE TRANSPORT?
19. EXPLAIN THE FUNCTION OF A CELL MEMBRANE?
20. DO ALL CELLS LOOK THE SAME? WHY OR WHY NOT?
21. EXPLAIN THE HOW AN ORGANISM IS ORGANIZED – FILL IN THE BLANKS

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1. OUT OF ALL THE MATERIAL THAT WE HAVE GONE THROUGH THIS WEEK WHAT IS THE AREA THAT YOU WOULD LIKE ME TO RE-TEACH?