**Cell Biology and Physiology Lab**

**IRSC**

**Cell Culture Overview Name:**

1. What is cell culture?
2. What are the uses of cell culture that we discussed?
3. What level of biosafety cabinet should we have in the lab for the cell culture we are doing? \_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. What is a laminar flow hood? Why is it important to use this while doing cell culture?
5. Why do mammalian cells need to be incubated at 5% CO2?
6. Why do we add fetal bovine serum to the media?
7. What is DMEM media? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. What is in DMEM media?
9. What is a primary cell culture?
10. What is the difference between an adherent cell culture and a suspension cell culture?
11. What is confluency?
12. What is a finite cell line? What is a continuous cell line?
13. Why is it important for a cell line to become transformed?
14. What is cryopreservation?
15. Where are cell lines stored in their frozen state?
16. What were the cell lines discussed in the Powerpoint (include the following: where they were derived from, what media is used, what research is done using that cell line?)