Lab 6 Exercise: T cell Enumberation
MB 402
20 pts

Name_____

1. Draw a ficoll density gradient after spinning with whole human blood. Indicate where the T cells accumulate. (4pts)

2. Which receptor on T cells is responsible for rosetting with sheep red blood cells? What is the ligand? (2pts)

3. Why do we use heparin in this assay rather than EDTA? (2pts)

4. Prior to the development of more accurate methods, what was T cell rosetting used for in the clinic? (2pts)

5. How do you distinguish a T cell from a B cell in this assay? (1pt)

6. How do you distinguish a monocyte from a lymphocyte in this assay? (1pt)

7. Given you diluted your cells 1/10 in RPMI and counted 76 cells in all four "W" chambers, what is the concentration of cells in the original sample? (4pts)

8. Calculate the % T cells in your sample. Is this normal? **Show your work.** (4 pts)