

Blood Typing Lab

Pre-Lab Questions:

Use the lab packet to answer the following questions IN COMPLETE SENTENCES!!!

1. What is blood and what comprises it?
2. What is plasma? What does it contain and what does it do?
3. What is an antigen?
4. What is an antibody? Where are antibodies located?
5. What does agglutination mean? What would cause blood to agglutinate?
6. What determines a person's blood type?
7. Complete the antigen/antibody informational chart listing all the possible blood types and the corresponding antigens and antibodies.
8. Define *antiserum* a) What antibodies does Anti-A Serum contain? b) What about Anti-B serum?
9. If anti-A serum is put into blood and it agglutinates, what are the possible blood types of the sample? Explain why this is the case.
10. If anti-B serum is put into blood and it agglutinates, what are the possible blood types of the sample? Explain why this is the case.
11. What is the Rh factor?
12. Complete the Rh informational chart.
13. If an anti-Rh serum is added to blood and the sample agglutinates, is it Rh positive or negative? Explain!

Conclusion Questions:

1. According to your results, which donor(s) can give blood to patient 1?
2. According to your results, which donor(s) can give blood to patient 2?
3. Which person in our lab is considered to be the universal blood donor? **EXPLAIN using the terms antigen, antibodies and agglutination.**
4. Which person is considered to be a universal recipient? **EXPLAIN using the terms antigen, antibodies and agglutination.**
5. What would happen to a Type O individual if they receive type A, B or AB blood? **EXPLAIN using the terms antigen, antibodies and agglutination.**
6. In an emergency situation how could you determine if two blood types are compatible? **EXPLAIN using the terms antigen, antibodies and agglutination.**
7. Can a Type B+ male and a Type AB- female have an offspring who is Type A +? Show your Punnett Squares and explain your answer.
8. Can a Type O- male and a Type A+ female have an offspring who is Type O-? Show your Punnett Squares and explain your answer.

