

Analysis and Conclusions

Part A. Use Figure 1 to answer questions 1 and 2.

1. On the basis of the hemoglobin similarity, what organisms appear to be most closely related to humans? Explain your answer. _____

2. Among the organisms that you compared, which one appears to be least closely related to humans? Explain your answer. _____

Part B. Use Figures 2 and 3 to answer questions 3 through 9.

3. On the basis of differences in their cytochrome *c*, which organisms appear to be most closely related to humans? _____

4. Which organisms appear to be least closely related to humans? _____

5. Check the pair of organisms that appears to be most closely related to each other:

- _____ snapping turtle–tuna
- _____ snapping turtle–rattlesnake
- _____ snapping turtle–pigeon

Give a reason for your answer. _____

6. Agree or disagree with the following statement and give reasons to support your answer. "Fruit flies appear to be more closely related to silkworm moths than they are to screwworm flies."

