Questions on phylogenetics movie

1. What is a phylogenetic tree?

2. Are whales more related to mesonychids, or artiodactyls? How do you know?

3. The living species most closely related to whales are\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

4. Did the molecular phylogeny for whale evolution agree with the structural one based on ear and tooth anatomy? What bone was used to reconstruct whale phylogeny?

5. What did Woese’s work reveal about relationships among the prokaryotes?

6. What was being attempted in 2001 by building phylogenies of *Anthrax* strains?

7. Lateral transfer equals horizontal transfer. Why is it important to consider lateral/horizontal transfer when discussing prokaryotic phylogeny?