Exam Review Sheet

Unit 12 and 17: Origin of Life and Classification

1. Review all class material, including: Journal notes, previous quiz, study guides, power notes and power points.
2. Know the following topics:
3. How old is the Earth?
4. What were the environmental conditions like for a primitive earth?
5. What were the first precursors to life? Structures? Molecules? What hypotheses exist for how life formed?
6. What were the first life forms? Were they simple or complex? What was the order for which life forms became more complex?
7. What was the first genetic material?
8. How did Eukaryotes form?
9. What is the benefit of developing organisms that can sexually reproduce?
10. What key characteristics do human primates have that enabled the species to separate from other primates? What types of primates are there? How many human species existed?
11. What evidence exists for hominid evolution? What do we know about species skull sizes?
12. What is binomial nomenclature?
13. How do we classify organisms? Eukaryotes? Prokaryotes? Know Kingdoms!
14. What is a cladogram?
15. What is a phylogeny?
16. Know the hierarchy classification scheme designed by [Carolus ***Linnaeus***](https://www.google.com/search?q=Carolus+linnaeus&spell=1&sa=X&ei=TFDtVMWkIozasATz6YGoAg&ved=0CBwQvwUoAA).
17. How are species derived from ancestral forms in a cladogram?
18. Know how a cladogram is designed.
19. How can species be shown to be related to each other based on diverging (different) traits of evolution and adaptation?