Evolution Study Guide

Please remember the test is subject to anything that we have covered in class. This is to help you review for the test and vocabulary should be mastered and understood, so you can use it on a conceptual level not just memorizing definitions.

1. Taxonomy
2. Natural Selection
3. Darwin
4. Evolution
5. Adaptation
6. Fitness
7. Acclimation
8. Camouflage
9. Mimicry
10. Morphology
11. Fossil record
12. Derived traits
13. Ancestral
14. Homologous structures
15. Vestigial Structures
16. Analogous Structures
17. Embryology
18. Comparative Biochemistry
19. Genetic drift
20. Founder’s effect
21. Bottleneck effect
22. Gene flow
23. Nonrandom mating
24. Disruptive selection
25. Stabilizing selection
26. Directional selection
27. Sexual selection
28. Prezygotic isolation
29. Postzygotic isolation
30. Allopatric speciation
31. Sympatric speciation
32. Adaptive radiation
33. Coevolution
34. Convergent evolution
35. Divergent evolution
36. Gradualism
37. Punctuated equilibrium

* Why are the Galapagos islands important?
* What are the four tenants of natural selection and be able to give examples.
* Be able to identify different scenarios evolution and understand theories that drive those scenarios. (ie. founder’s effect, adaptive radiation, sexual selection etc..)
* Understand consequences of adaptations
* Understand the types evidence/data scientists use for of proving evolution and be able to give an example. (anatomical, biochemical, developmental)
* Understand how different environmental factors and human impacts influence evolution.