

SHORT ANSWER: In a sentence or two define or describe the terms listed below relative to our text, lectures, and lab work.

1. Adaptation
2. Biocultural evolution
3. Paleoanthropology
4. Theory
5. Taxonomy
6. Uniformitarianism
7. Fixity of species
8. Catastrophism
9. Thomas Malthus
10. Amino acids
11. Chromosomes
12. Karyotype
13. Locus (plural loci)
14. Mutation
15. Nucleotides
16. Polymerase chain reaction (PCR)
17. Transcription
18. Transfer RNA (tRNA)
19. Allele frequency
20. Dominant
21. Gene flow
22. Genetic drift
23. Heterozygous
24. Phenotype
25. Population
26. Recessive
27. Binocular vision
28. Brachiation
29. Estrus
30. Frugivorous
31. Sexual dimorphism
32. Stereoscopic vision
33. Dominance hierarchies
34. Home range
35. One-male or Unimale troop
36. Monogamous pair
37. Territory
38. Adaptive radiation
39. Biological species concept
40. Cladistics
41. Paleospecies
42. Phylogenetic tree
43. Punctuated equilibrium
44. Dental Formula
45. Zygomatics
46. Mandible
47. Innominates
48. Tarsals
49. Intermembral Index
50. Bilophodont molars

Short Answer/Essay Questions: In a paragraph or two, answer the following questions..

1. What are the two major areas of study within physical anthropology and how does Dr. Bindon's research fit into these areas?
2. Explain how and why traditionally held views prevented wide acceptance of evolutionary theories in 19th century Europe and America. Give a specific example.
3. Explain how variation, competition for resources, immense geological time, and geographic isolation can all interact to result in the appearance of new species.
4. Explain why a woman with type O blood and a man with type A blood could potentially have children with either type A or O blood. Explain why a child can have type O blood even though one parent has type B blood and the other has type A blood.
5. What traits do scientists use to define the order *Primates*?
6. Some taxonomists classify the African apes in the Hominidae with man, while the traditional system classifies these apes with the Orang in the family Pongidae. Which do you favor and why?.
7. Describe the nature of variation in the guenon monkeys and describe the ideas about how that variation came into being as depicted in the video "The Masked Monkeys".
8. Compare and contrast the social organization of bonobos, and common chimpanzees.
9. Discuss the relationships among global climatic change in the Tertiary Period, continental drift, and primate evolution. Be specific (name genera) about the fossil primates found at different times and different places.
10. What is the significance of the Cretaceous Period for Primate evolution?