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CLASS- XII : BIOLOGY

1. First human like Hominid was
 - a) Homo erectus
 - b) Australopithecus
 - c) Homo habilis
 - d) Ramapithecus
2. Wing of pigeon is homologous to the
 - a) Ear of bat
 - b) wing of butterfly
 - c) foreleg of horse
 - d) tail of rabbit
3. Which gas was probably least abundant in the early atmosphere?
 - a) H₂O
 - b) O₂
 - c) NH₃
 - d) CO₂
4. Charles Darwin returned to England from his 5 year expedition and published his observation and conclusions in a book in November
 - a) 1838
 - b) 1839
 - c) 1859
 - d) 1861
5. Variation in gene frequencies within population can occur by chance rather than by natural selection. This is referred to as
 - a) Genetic flow
 - b) genetic drift
 - c) random mating
 - d) genetic load
6. According to Darwin the organic evolution is due to
 - a) intraspecific competition
 - b) interspecific competition
 - c) competition between closely related speies
 - d) reduced feeding efficiency in one species due to presence of interfering species
7. Which one of these is a flying dinosaur
 - a) triceratops
 - b) tyrannosaurus
 - c) stegosaurus
 - d) brachiosaurus
 - e) pteranodon
8. Cenozoic eras is the age of
 - a) mammals
 - b) reptiles
 - c) amphibians
 - d) fishes
9. Recapitulation theory was given by
 - a) Dollo
 - b) Haeckel
 - c) Darwin
 - d) Mac Dougall
10. Gorilla, chimpanzee and monkey belong to the same
 - a) Order
 - b) family
 - c) genus
 - d) species

11. What are eobiont?
12. Describe founder effect?
13. What is mass extinction?
14. What is population bottleneck?
15. How geographical isolation differs from reproductive isolation?
16. How do we compute the age of a living tree?
17. How do we compute the age of a rock?
18. What are the key concepts in the evolution theory of Darwin?
19. Explain the statement ontogeny repeats phylogeny.
20. Had Darwin been aware of Mendel's work would he being able to explain the origin of variations?
21. What is antisense technology?
22. Where is non genetic sex determination found?
23. Describe lytic and lysogenic cycle in phages.
24. Give the functions of different types of DNA Polymerases.
25. -----is the technique by which three dimensional structures of macromolecules can be studied.
26. New strands of DNA are formed only in the -----direction.
27. -----has the shape of clover leaf.
28. Viruses are-----obligate parasites.
29. The genes and polypeptide codes are for collinear was proved by -----
30. -----are arranged in linear order in chromosomes.