

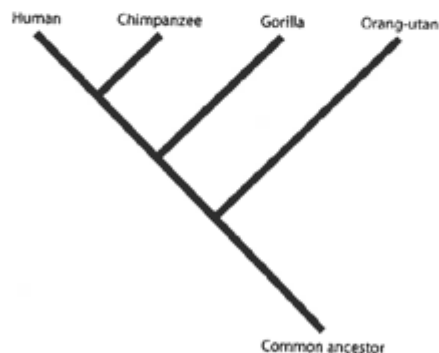
Question 38

Refer to the following table to answer the question.

Table 2: Relationship between humans and great apes using DNA differences

Primates being compared	DNA difference (%)
Human - chimpanzee	1.2
Chimpanzee - gorilla	1.2
Human - gorilla	1.6
Chimpanzee - orang utan	1.9
Human - orang utan	2.5
Gorilla - orang utan	2.5

- a. Use the information given in the table above to construct a phylogenetic tree to illustrate the evolutionary relationships of the great apes and humans. [3]



- 1 mark for indicating three species in the right order.
- 2 marks for indicating four species in the right order.
- Full marks for indicating all species in the right order using an appropriate phylogenetic tree format. (Distance between the species is not that critical.)

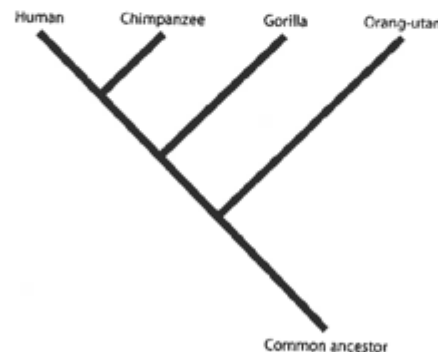
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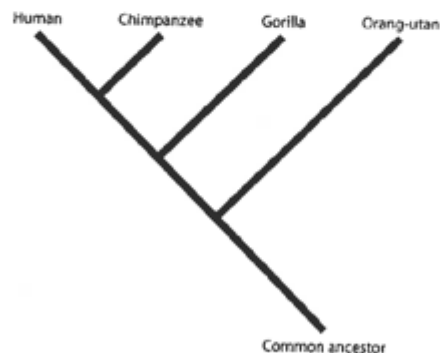
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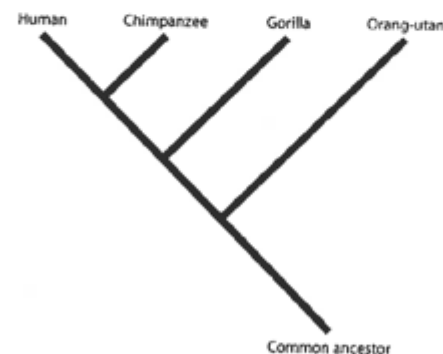
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