

A JOINT VENTURE OF DIET AND SSK, PALAKKAD

8

The Paths Traversed by Life

ജീവൻ പിന്നിട്ട പാതകൾ



**10th Biology Chapter\_08 Online class\_49 worksheet\_49**

1. Identify the odd one from those given below, and write the feature common to others:

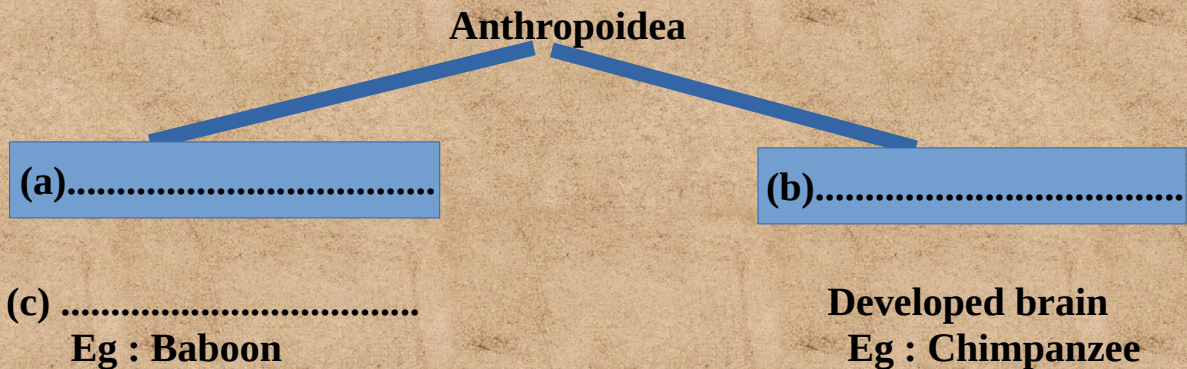
(a) monkey, gibbon, orangutan, gorilla.

2. Analyse the word pair relationship and fill in the blanks:

(a) Monkey : Cercopithecoidea

Chimpanzee : .....

3. Complete the illustration related to the evolution of human beings appropriately.



4. The table given below shows the difference in aminoacids obtained from a comparative study of the  $\beta$  chain of haemoglobin of different organisms. Analyse the table and answer the questions

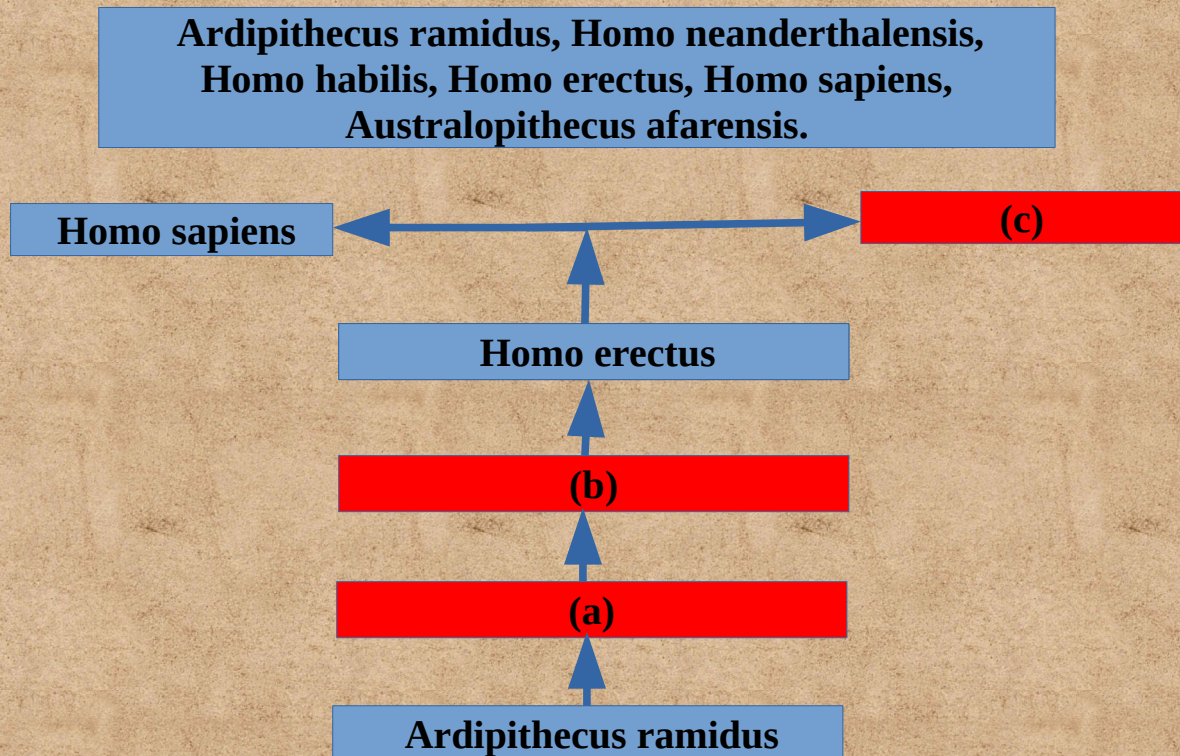
| Organism   | Difference from the aminoacids in the $\beta$ chain of haemoglobin in man |
|------------|---|
| Chimpanzee | 0   |
| Gorilla    | 1   |
| Rat        | 31  |



(a) Which organism is more closely related to man on the basis of evolution? Substantiate your observation.

(b) Explain the reason for the difference in aminoacids of haemoglobin of the organisms listed in the table on biochemical basis.

5. The links in the evolutionary history of modern man are given in the box. Complete the illustration choosing the appropriate ones from the box.



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