



7. Practise drawing various animals and plants.

Ans: (1) Eliphant



(2) Camel



(3) Dog



(4) Rose



(5) Dahlia



(6) hibiscus



8. Describe one example of adaptive radiation.

Ans: Darwin's finches of the Galapagos islands had common ancestors but now have different types of modified beaks according to their food habits.

9. Can we call human evolution as adaptive radiation?

Ans: Yes, human evolution is an example of adaptive radiation as different species of human evolved across different areas of world as they diverged to different areas in following fashion.

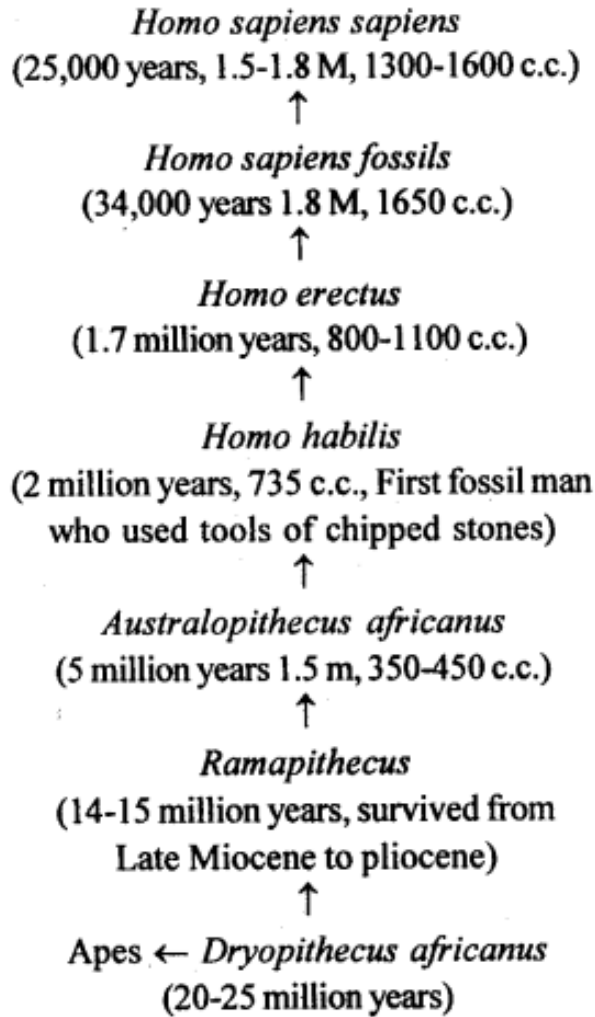
(i) Hominid introduction occurred in Africa and Asia:

(ii) Homo habilis lived in Africa - 2 million years ago.

(iii) Homo erectus- migrated to Asia and Europe and diverged into 2 species - Java Man and Peking Man.

(iv) Similarly Homo erectus - was followed by Homo sapiens.

(v) Primitive neanderthal man in Europe gave way to African cromagnon.



**Fig. Schematic representation of Evolution of Man.  
 Age, height and cranial capacity are also given**

10. Using various resources such as your school library or the internet and discussions with your teacher, trace the evolutionary stages of any one animal say horse.

Ans: Evolutionary stages of horse:

Eohippus - Meshippus - Merychippus - Pliohippus - Equus.

Evolutionary trend:

- (i) Increase in body size.
- (ii) Elongation of neck.
- (iii) Lengthening of limbs.
- (iv) Enlargement of third digit.
- (v) Increase in structural complexity of teeth for feeding on grass.

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