

DIRECT EVIDENCES OF EVOLUTION

There are many evidences, which support the theory of organic evolution.

Some of these are-

- Anatomical
- Physiological
- Embryological
- Palaeontological etc.



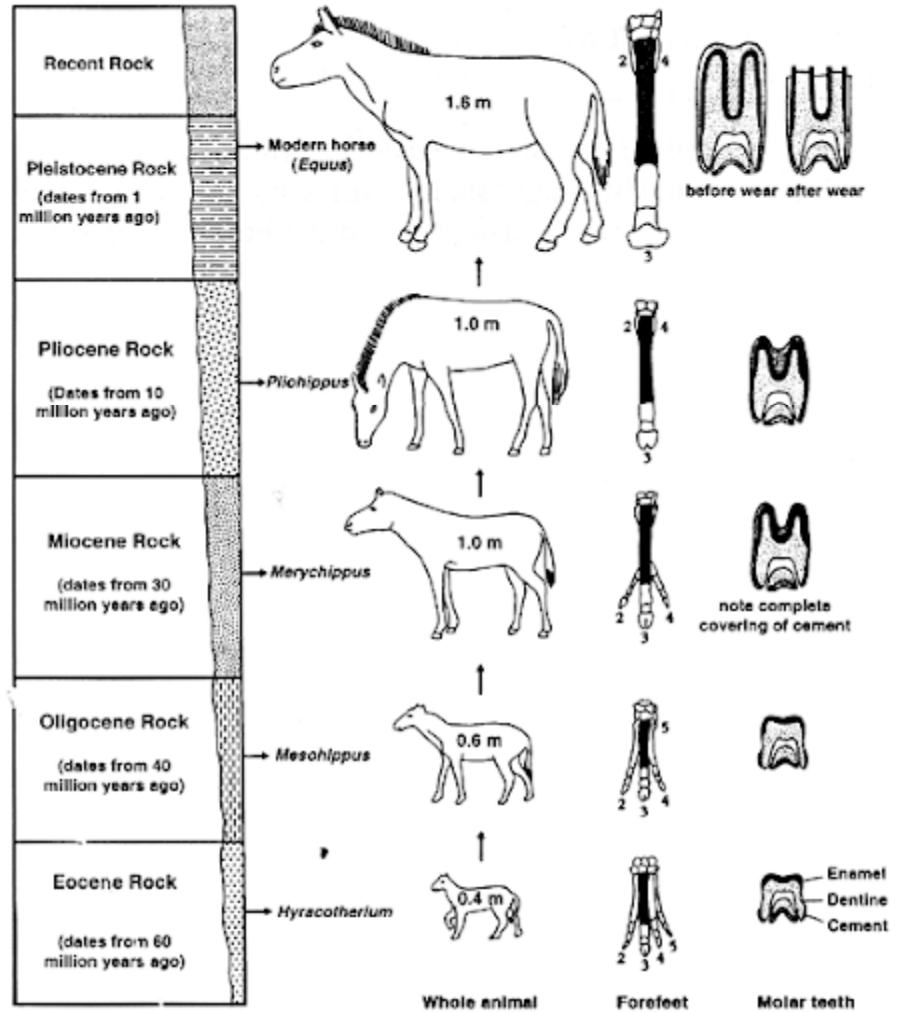
Fig.: Archaeopteryx fossil

Types of fossils

A. Unaltered Fossils:



B. Altered Fossils:

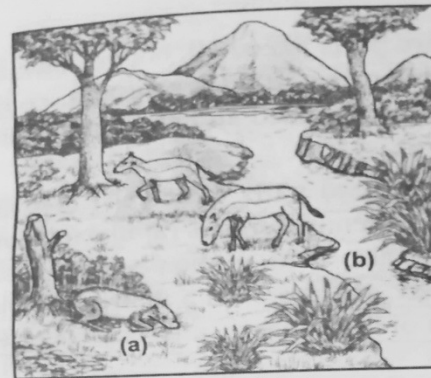


Types of Altered fossils:

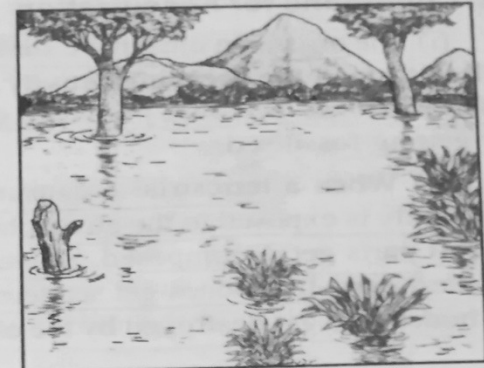
- i. **Petrified fossils (petra - rock)**
- ii. **Carbonisation**
- iii. **Moulds and casts**
- iv. **Imprints**
- v. **Trace fossils**



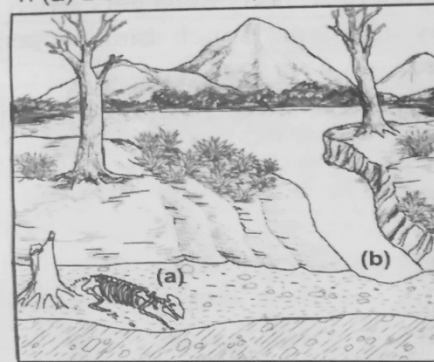
Incompleteness of Fossil Record



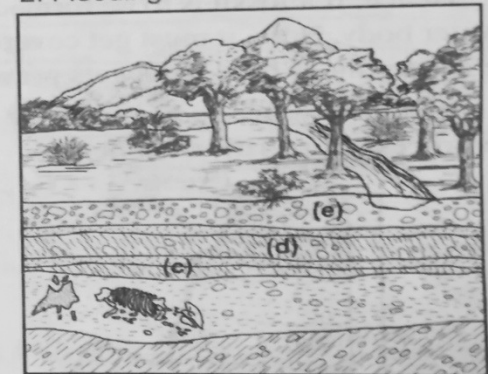
1. (a) Dead animal. (b) River.



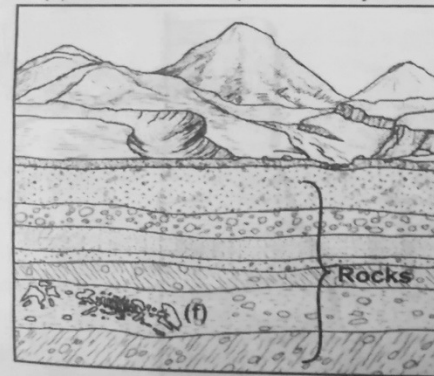
2. Flooding of the area.



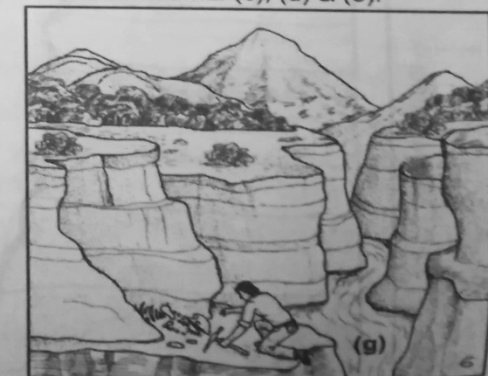
3. (a) Deposition of sediment over the remains
(b) Obstruction to the path of river by sediment.



4. More and more sedimentation layers are formed viz. (c), (d) & (e).



5. Sedimentary rocks are formed.
(f) Fossil.



6. The river (g) reappears and carves a valley through sedimentary rocks (canyon formation). This makes the fossil, visible to the naked eye.

Fig. 3.10 : Formation and discovery of a fossil

