Introduction to Palaeontology

GE3

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Geology

- Also known as 'geoscience' or 'Earth science', geology is the study of the structure, evolution and dynamics of the Earth and its natural mineral and energy resources.
- Geology investigates the processes that have shaped the Earth through its 4500 million year history and uses the rock record to unravel that history.

Palaeonotology

- Palaeontology is a brunch of geology which deals with earlier life through fossil record.
- Palaeontology is the study of prehistoric species, mostly ones that are extinct. It focuses primarily on fossil data, using a variety of physical, chemical and biological techniques to analyse them.

Fossil

 Fossil is a remnant, impression, or trace of an animal or plant of a past geologic age that has been preserved in Earth's crust.

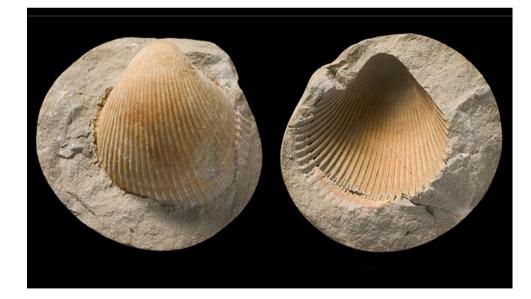


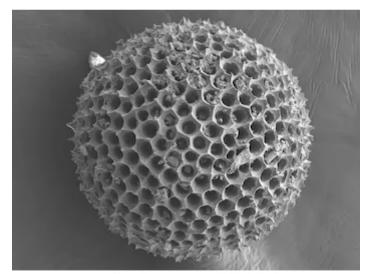




Type of fossil:

- According to size-
- i) Macro fossil Those are visible in hand specimen
- ii) Micro fossil- Those are visible only under microscope.





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Type of fossil:

According to nature- i) Plant fossil
ii) Animal fossil



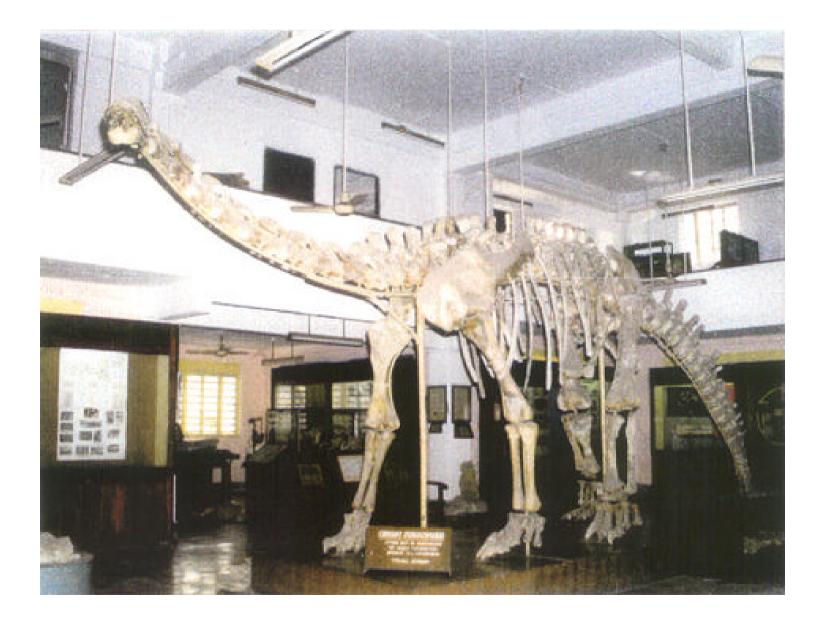
Type of fossil:

- According to preservation:
- i) Body fossil
- ii) Trace fossil



Mode of Preservation of fossils:





Molds and Casts are the Most Common Types of Fossils

- A mold is a hollow area in sediment in the shape of an organism or part of an organism. A mold forms when the organism is buried in sediment. Later, water may deposit minerals and sediment into a mold, forming a cast.
- Cast Mold
- A cast is a solid copy of the shape of an organism.