



## INTERMEDIATE

# Biology : Evolution

*Hand Notes For JEE Mains, Advance, NEET UG, Class 11 & 12 etc...*

## Hand Notes

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# Chapter - 7 Evolution

\* Evolution - Evolution is the process by which population of organism acquires and pass novel traits from one generation to another.

Its occurrence over large stretches of time explain the origin of new species and ultimately a vast diversity is created.

- The universe is about 20 billion years old
- The earth is about 4.5 billion years old
- Life appeared around 4 billion years ago

\* The Big Bang Theory - This theory attempts to explain the origin of universe. It talks of a single huge explosion unimaginable in physical terms. The universe expanded and the temperature came down.

- Hydrogen and Helium were formed afterwards.
- The gases condensed under gravitation and formed the galaxies of the universe.

\* Conditions on early earth - Earth is about 4.5 billion years old. There was no atmosphere on early earth.

- Water vapour, CO<sub>2</sub>, methane and ammonia released from molten mass covered the surface.
- The UV rays from the sun broke up water into hydrogen and oxygen.
- Oxygen combined with ammonia and methane to