

## **Edward O Wilson passed away**

By IASToppers | 2021-12-28 17:25:00



### **Edward O. Wilson passed away**

Recently, Edward O. Wilson (1929-2021), a US naturalist, died at the age of 92 in Massachusetts. He was dubbed as the "modern-day Darwin".

#### **Contributions of Edward O. Wilson:**



#### [ref:IE]

- He was considered as the one of the world's leading authorities on natural history and conservation.
- He was also as an **entomologist** (persone who studies insects).
- He also wrote a famous book, Sociobiology: the New Synthesis (1975).
- His Half-Earth Project calls for protecting land and sea to reverse the course of species extinction.
  - The United Nations (UN) has urged countries for conserving 30 % of their land and ocean water by 2030. This target is known as "30 by 30". This effort is from inspired in part by Wilson.

#### Darwin's theory of evolution

#### **Background:**

- Evolution studies large-scale biological changes occurred in an organism.
- It also explains how the evolution occurred in the past, and is still occurring now.
- Before 1850s many evolution theories were already in 1859, Charles Darvin in his book Origin of Species more logically explained the evolution. Till now, it is widely accepted evolution theory.

#### Essence of Darwin's theory of evolution/ Darwin's theory of natural selection.

- It talks about evolution by way of **natural selection**.
- It says, organisms that were fit to adapt the changing environment structure, have only survived. In other words, it talks about **survival of the fittest.**

All the species of living organisms have been gradually evolved from common ances

# Darwin's Theory of Evolution

- Darwin's work actually included 5 separate theories
  - Perpetual Change is the basic theory of evolution on which the others are based stating that the world is constantly changing.
  - Common Descent (controversial theory) states that all forms of life descended from a common ancestor.
  - Multiplication of Species species divide and split into different species, which can no longer interbreed
  - Gradualism large differences actually originate from an accumulation of many smaller differences
  - Natural Selection explains the selective processes of the environment, through a phenomenon called adaptation.

#### [ref:pintrest]

#### Criticisms of Darwin's theory of evolution

- Natural selection is not the only factor responsible for evolution, which Darwin didn't focus on.
- Darwin didn't mention any explanation about useful and useless modifications.
- There is no explanation for slow changes and abrupt changes.