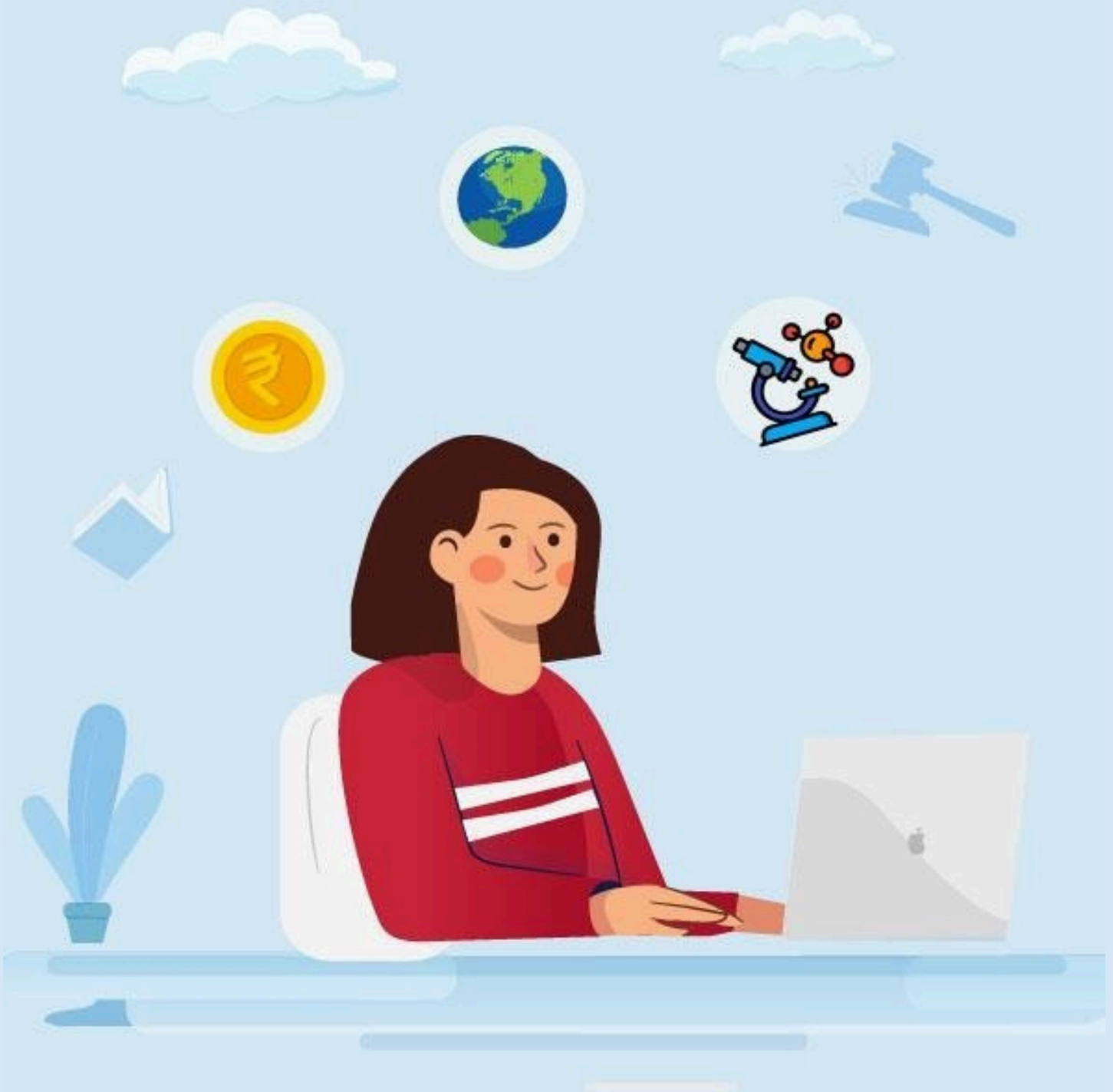




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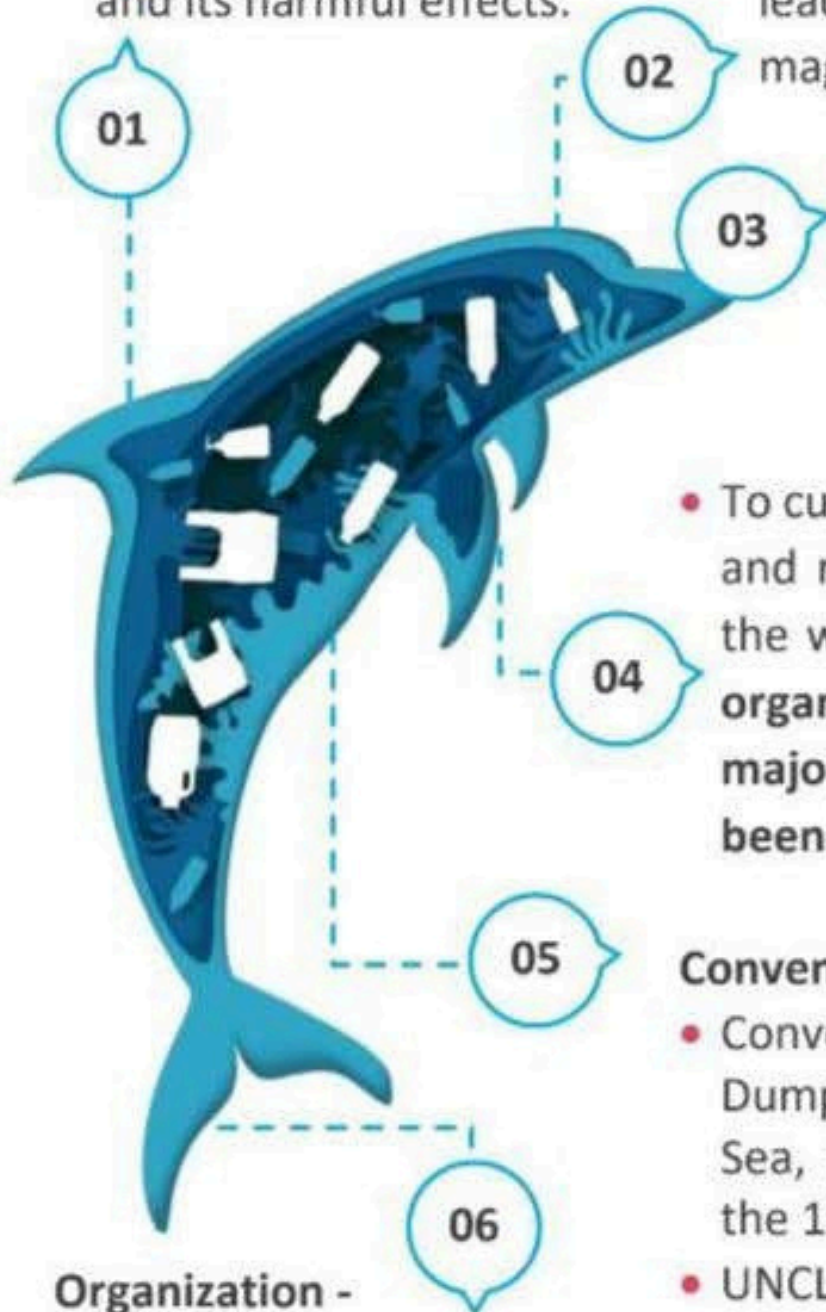


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Marine Pollution

- Marine pollution refers to discharge of chemicals & plastics into the ocean and its harmful effects.

- Toxic chemicals are consumed by plankton & benthos animals, leading to biological magnification.



- Toxins are found in food items obtained from fish & livestock.

- To curb marine pollution and regulate the use of the world's oceans, **one organization and two major conventions** have been formed.

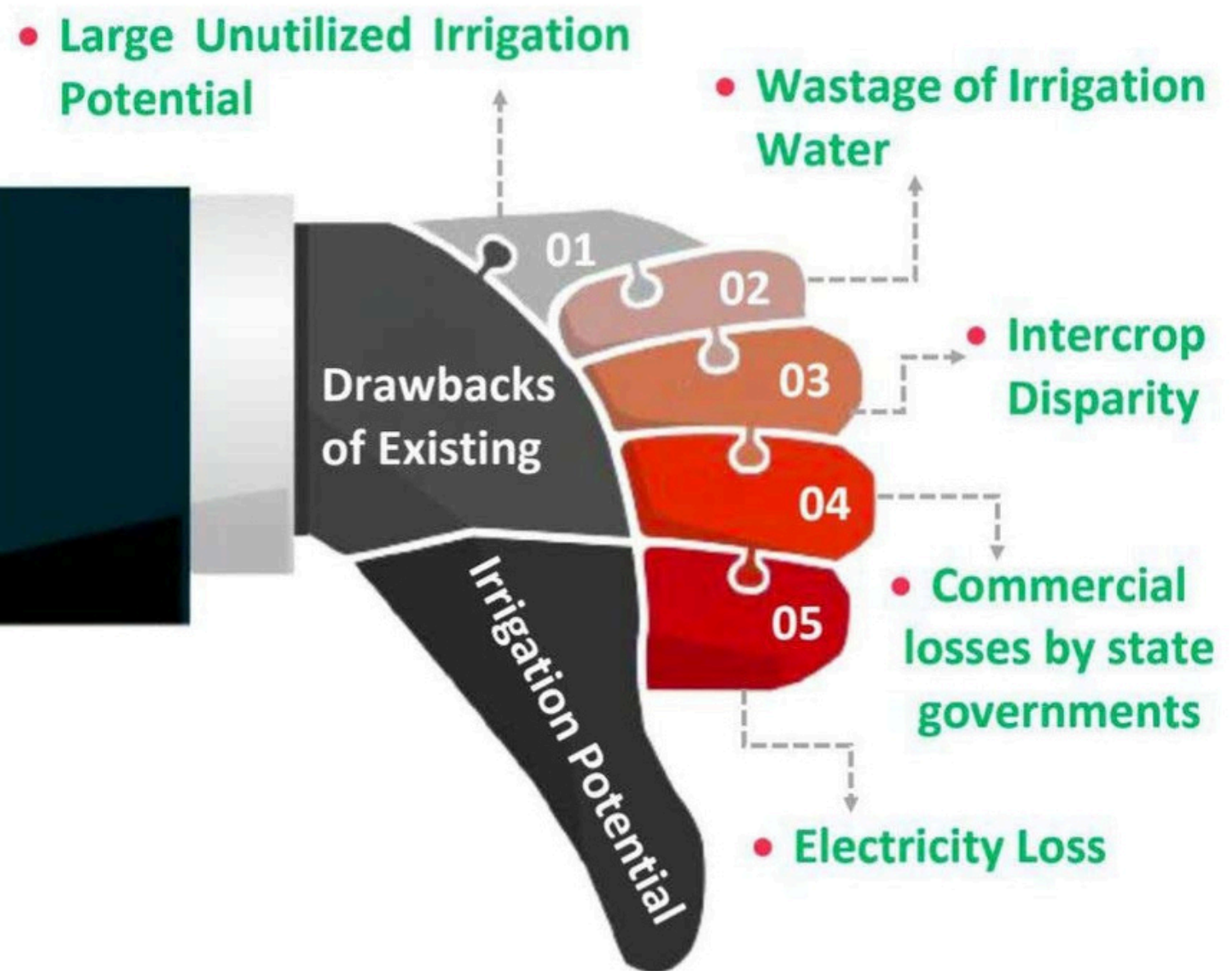
Conventions -

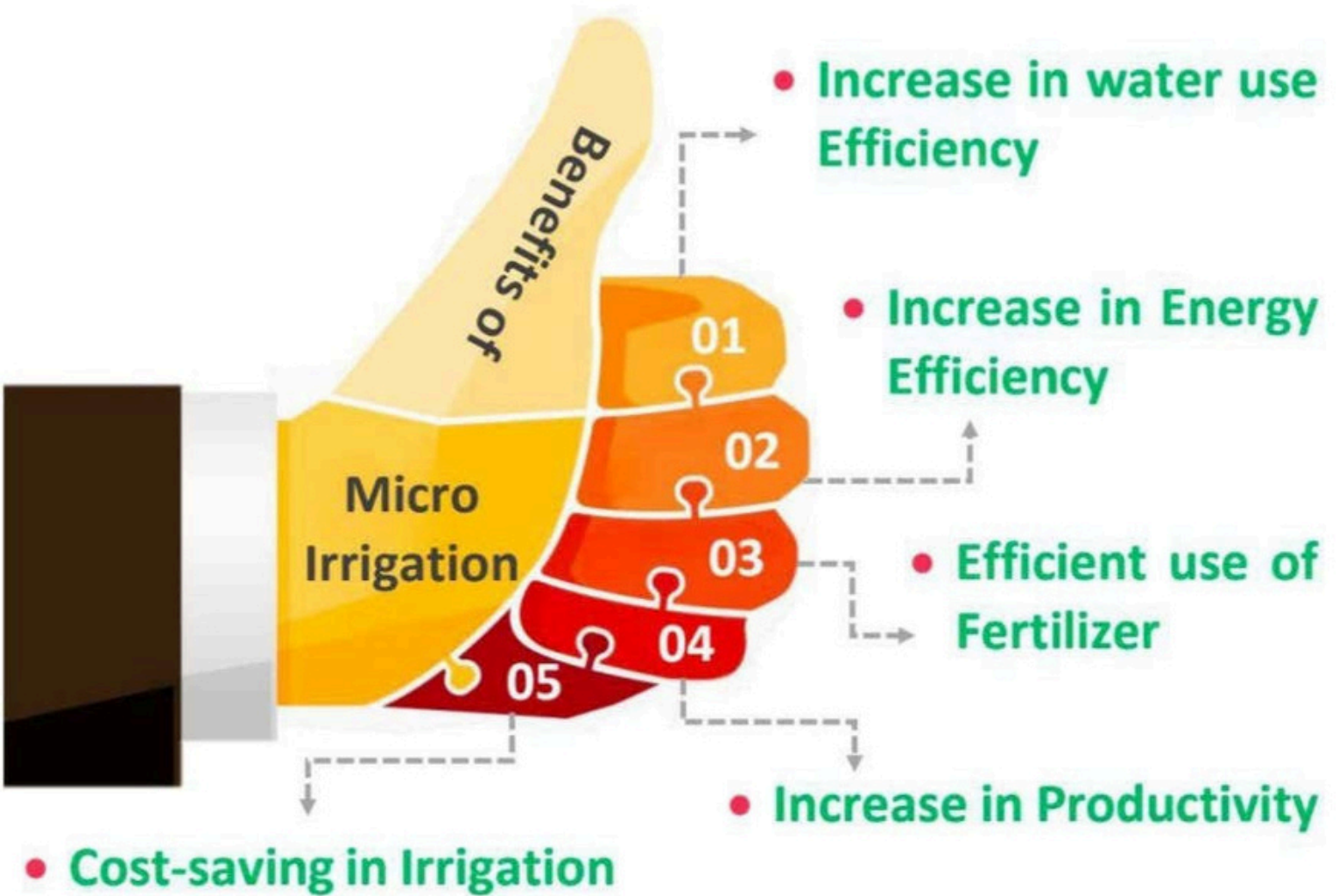
- Convention on the Dumping of Wastes at Sea, to be replaced by the 1996 Protocol.
- UNCLOS (United Nations Convention on Law of the Sea).

Organization -

- International Maritime Organization

Problems With Existing Irrigation Potential





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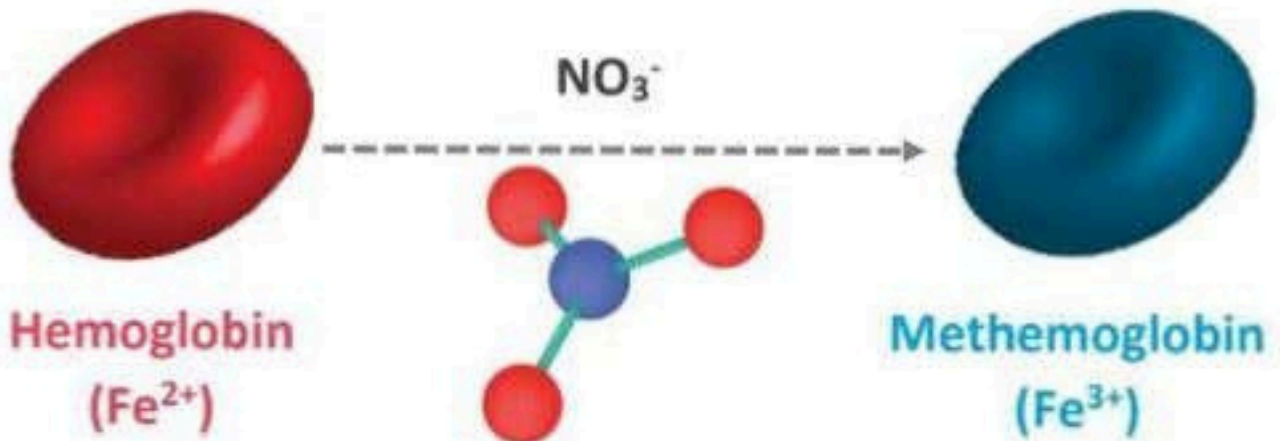
Free For All

• Wastage of Irrigation Water –

Through over-irrigation and seepage from canals can be checked by –



Nitrates –



- Excess NO_3^- in drinking water reacts with hemoglobin to form non-functional methemoglobin and impairs O_2 transport.

01

- This condition is called methemoglobinemia or blue baby syndrome.

02

- Methemoglobin is an oxygen-carrying metalloprotein hemoglobin.

03

- Methemoglobin cannot bind to oxygen, unlike oxyhemoglobin.

04

- High level of nitrates may form carcinogens and can accelerate eutrophication.

05

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ENOUGH PROCRASTINATION. IT'S **PRACTICE TIME**

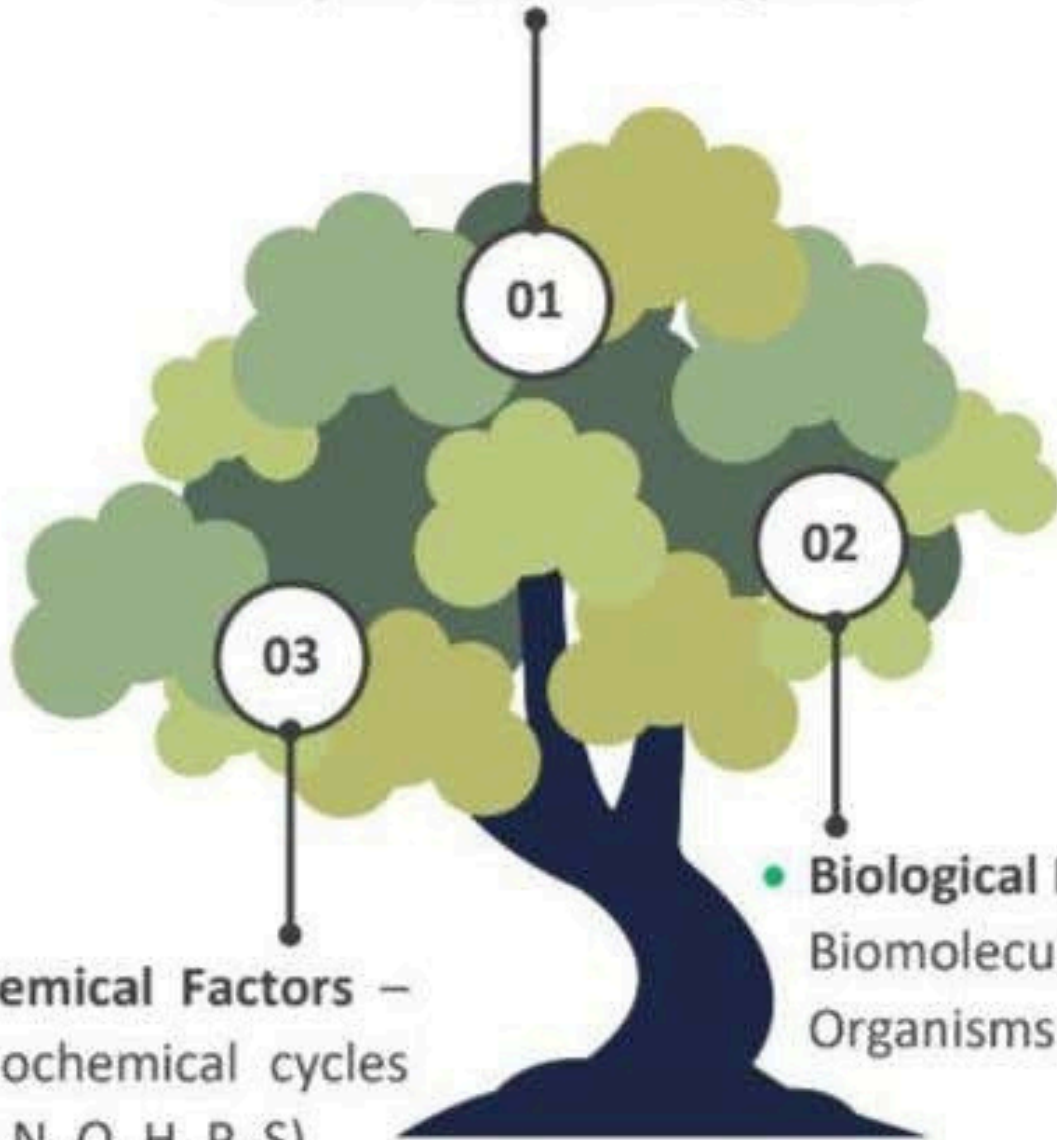


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Components of Environment

- All organisms depend on the environment to carry out their natural life processes and meet their physical requirements of food, energy, water, oxygen, shelter, etc.

- **Physical Factors** – Air, Water, Temperature, Wind, Light etc.



- **Biological Factors** – Biomolecules and Organisms

- **Chemical Factors** – Geochemical cycles (C, N, O, H, P, S)

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