

Units

- It refers to individual entities, whether ~~concrete~~ living or non-living, that exist within the nature.
- It is limited in size.
- Units engage in various activities.
- Units interact with each other, forming a dynamic network.
- Ex:- Humans, Animals, plants etc.

Space

- It is the vast, all-prevailing expanse that surrounds and accommodates the units.
- It has no limit.
- Space itself doesn't engage in any activity.
- All units exist within space & relate to each other through it.
- Ex- Space b/w stars, gaps b/w atoms are all manifestations of space.

Importance of studying about space :-

- Harmony - Recognizing the relationship b/w units & space is essential for achieving harmony in nature.
- Contemplation - Reflecting on the innate alignment within nature allows us to unravel its mysteries.
- Education - Applying principles of natural harmony in educational institutions promotes sustainable practices.

2) There are 4 orders in nature:-

- (i) Physical Order: Includes soil, water, air & other physical substances.
- (ii) Bio Order: Comprises grass, plants, trees etc.
- (iii) Animal Order: Encompasses animals and birds.
- (iv) Human Order: Refers to human being.

The 1st 3 orders are mutually fulfilling.

However, the Human Order often falls short of being mutually fulfilling:

- Humans sometimes disrupt the balance by overexploiting resources, polluting the environment and causing harm to other orders.
- Our actions impact the physical, Bio & Animal orders negatively.
- To be mutually fulfilling for each other, humans must:
 - Practice sustainable living, conserving resources & minimizing pollution.
 - Respect & protect the natural world.
 - Foster knowledge & awareness about our ^{inter}connectedness with all orders.

- 3) (i) Physical Order: This order includes physical substances such as soil, water & air. These elements form the foundation of our environment. For instance, the landmass of continents, oceans, mountains & even celestial bodies like stars & planets fall into the material order.
- (ii) Bio Order: The order comprises living organisms such as ^{grass} green, plants, trees, flowers & fruits. They play a vital role in maintaining ecological balance. ~~Forests~~ Ex:- Forests, plants, trees etc.
- (iii) Animal Order:- It includes a wide variety of species, from insects to mammals. They interact with the environment & contribute to its dynamics. Ex- Animals, Birds etc.
- (iv) Human Order: Human beings form the smallest order. Our unique ability to acquire knowledge, reason & create distinguishes us. Humans impact the environment through their actions, inventions and innovations.
- Diagram illustrating the hierarchy of orders:
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graph LR
 PO[Physical Order] --> BO[Bio Order]
 BO --> AO[Animal Order]
 AO --> HO[Human Order]

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- 4) Yes, global warming is primarily caused by human activities.
- (i) Heat-Trapping Gases: Scientists agree that global warming is mainly caused by human activity. Gases ~~so~~ like Carbon dioxide are warming the world. We release these gases when we burn fossil fuels like coal, oil & gas.
- (ii) Natural changes: While Earth has cycled through ice ages & warm periods in the past, today's global warming can't be explained by natural changes alone. Variations in Earth's orbit, solar activity cycles have occurred historically, but they don't account for the rapid warming observed now.
- (iii) Evidence: Earth's surface temperature has risen by 1.8 degrees Fahrenheit since 1900. This warming is happening because of measurements from weather stations and other sources. Earth is warming at a much faster rate than in the past.



5)

## Innateness

- It refers to qualities that are intrinsic to a unit.
- It is a fundamental concept in understanding the inherent nature of various entities.
- Innate traits include characteristics like intelligence, temperament and physical attributes.
- These qualities are inherent & can't be easily separated from an individual.

## Inheritance

- It refers to the passing down of traits from one generation to another through genetic material.
- It is essential for understanding how genetic information is transmitted across generations.
- Hair color, height, skin color & other genetic traits are inherited from our ancestors.
- It plays a crucial role in shaping an individual's physical & biological characteristics.

6) \* Human beings, without the right understanding, often disrupt this harmony.

\* To restore harmony, human needs to:

- Understand co-existence in existence
- Live accordingly, embracing the feeling of co-existence.

\* Present day problems arise due to :-

- Resource depletion (using resources faster than they regenerate).
- Pollution.

\* Ethical Conduct:

- Ethical conduct aligns with natural acceptance & avoids internal conflict.
- It stems from understanding the underlying harmony at all levels.

→ \* Existence is the state of being, encompassing all that exists.

\* Co-existence refers to the interconnectedness & mutual fulfillment of units within existence.

• Levels of Co-existence :-

\* Physical Order:

- At the atomic, molecular & cellular levels, existence expresses co-existence.
- Units interact, recognize relationships & fulfill them.
- This harmony ensures the functioning of biological system

### \* Bio-Order:

- Within living organisms <sup>(plants, animals)</sup>, co-existence continues
- Cells, tissues and organs work together, recognizing their interdependence
- The body maintains balance & sustain life

### \* Human-Order:

- It consists of 2 distinct entities: The self & The body
- Right understanding, right feeling & define conduct contribute to harmonious co-existence

### \* Role of Human being:

\* Our role is to realize this co-existence, harmony & relationship.

### \* To achieve this:

- Understand inherent harmony in existence.
- Live with a sense of co-existence, utilizing the provisions within existence.

8) \* Earth, like all other units in existence, is part of this interconnected web.

\* While Earth itself is not self-energized, it exists within a ~~for~~ larger context.

\* Space, is energy in equilibrium. All units are energized by this space.

\* Earth receives energy from the Sun, but its existence is sustained by the interconnected ~~new~~ energy of the entire cosmos.

\* Earth's self-organization energization emphasizes the importance of sustainability & balance in human activities. By harnessing renewable energy sources such as solar power, Earth exemplifies the principle of living in harmony with natural cycles & systems.

\* Just as Earth has evolved mechanisms to capture & utilize solar energy efficiently, humans can develop technologies & solutions to transition towards a more sustainable energy future.

10)

### Human Role in Existence:

Humans are like caretakers of the Earth, making sure everything runs smoothly. We create culture, learn about the world & work to make things better for everyone

### Natural Outcome of Fulfilling this Role

If humans do their job well, it ~~be~~ would be like everything falling into place. The Earth would be healthy, cultures would thrive, people would be wise and kind & everyone would have a fair chance to live a good life.