

D. 1. The wide range of living organisms or species on the earth are called biodiversity.
2. The sum total of our surrounding and their present conditions is known as our environment. It support life on earth.

3. The main functions of atmosphere are given below:

- (a) It moderates heat and cold on earth.
- (b) Protecting life on earth from harmful rays.
- (c) It is responsible for causing precipitation.

4. The biosphere is the zone where the atmosphere, lithosphere, and hydrosphere interact. Its special feature is that it involves all the components to function as a balanced system.

5. We should protect our environment for different reasons are given below :

- (a) Resources for living.
- (b) Interaction and interdependence.
- (c) Energy flow

E. 1. The ideal conditions that make life possible on earth are given below :

- (a) **Resources for living** : Our environment makes available resources for living such as air, water, nutrients, habitats.
- (b) **Interaction and interdependence** : There is constant and continuos interaction and interdependence between the above three components.
- (c) **Energy flow** : The sun is the only source of energy in the solar system. Energy flow takes place from one form to another.

2. The totality of environment includes all the elements of our natural environment divided into physical and biological components, and also the man-made environment which exists in the backdrop of the natural environment.

3. Ecosystem is formed by the interaction of all living organisms, plants, animals and bacteria with the abiotic environment in which they live. An ecosystem is never self-contained or closed because it form wherever solar energy is received. .

4. Oceans perform the following useful functions :

- (a) provide a link to landmasses or continents.
- (b) Oceans provide us food, minerals, mineral oil and gas, and are used for navigation.
- (c) Much of the water that falls as rain, snow, etc. on land comes from the oceans.

5. Major components of environment are given below :

(a) **Natural Environment** : It is further subdivided into physical and biological components.

Biological Environment : It consists of all living organisms, including bacteria. It is also called biotic environment.

Physical Environment : It includes biotic factors such as mountains, plains, soils, climate, sun-shine etc.

(b) **Man-made Environment** : It does not have any living components. It exists in the backdrop of the physical environment.

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