

Subject- S. S. T Class-7 Topic- Biosphere and Landscape
Learn and Write

Exercise

Use Cordova Smart Class Software on the smart board in class to do these exercises.

- Choose the correct options.
 - Which of the following is not a natural landform?

(i) mountains	<input type="checkbox"/>	(ii) plateau	<input type="checkbox"/>
(iii) domicile	<input type="checkbox"/>	(iv) plains	<input type="checkbox"/>
 - A landform surrounded by water on three sides is a/an

(i) island	<input type="checkbox"/>	(ii) peninsula	<input type="checkbox"/>
(iii) sea	<input type="checkbox"/>	(iv) ocean	<input type="checkbox"/>
- Fill in the blanks.
 - The four oceans on the Earth are and
 - Gaddi, Bakarwal and Bhotiya tribes of the Himalayas reside there in season.
 - A is the area where river flows along with its tributaries.
 - A stream of water flowing naturally on the land is known as
- What is biosphere? Why is it found only on Earth?
- Write the difference between an ecosystem and environment.
- What is a food chain? Explain with an example.
- What should we do to maintain the balance in environment?
- What is an island? Are they only found in sea?
- How many types of plains are there? Explain their importance with example.

Additional Questions For Practice

A. Multiple Choice Questions (MCQs) – Tick (✓) the correct options.

1. Which component of biosphere includes soil and rocks?

(a) atmosphere

(b) lithosphere

(c) hydrosphere

(d) none of these

2. What does ecological balance describe?

(a) superior ecosystem

(b) damage to the ecosystem

(c) stable ecosystem

(d) all of these

3. Which of the following landforms is well populated because its soil and terrain are good for farming?

(a) plateau

(b) plains

(c) mountains

(d) island

4. The stream of water that flows on the surface of the Earth is known as a

(a) waterfall

(b) lake

(c) river

(d) flood

B. Fill in the blanks.

1. Many seas form large bodies of water known as
2. In a food chain, there are and
3. is a community of living and non-living things that co-exist with one another.
4. The process of plants preparing their own food is known as

C. Write 'T' for true and 'F' for false statements.

1. Human activities contribute to the disruption of the natural balance of an ecosystem.
2. All living organisms derive energy from the Sun, water and air.
3. A food chain always starts with a consumer – an organism that consumes food.
4. The highest form of landform on the Earth's surface is the mountain.

D. Very Short Answer Questions

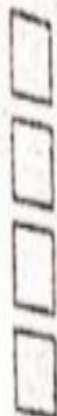
1. What are biotic and abiotic components?
2. Define photosynthesis.
3. What are landforms?
4. What is a peak?

E. Short Answer Questions

1. What kind of farming is practised on the mountains?
2. What is the difference between low plateaus and high plateaus?
3. What makes sea an essential aspect of human trade?
4. What is believed to have allowed life to evolve on the Earth?

F. Long Answer Question

What are the reasons of disruption in ecological balance?



1. Biosphere and Landscape

Exercise

1. Choose the correct options.

- (a) (iii) domicile (b) (ii) peninsula

2. Fill in the blanks.

- (a) Pacific, Atlantic, Arctic, Indian (b) summer
(c) river basin (d) river

3. Following points show the importance of Biosphere:

(a) Biosphere is a huge system that works together to support life on the Earth. The biosphere includes all living organisms, and also dead organic matter. Different organisms can exist at different places in the biosphere.

(b) The biosphere constitutes the global ecosystem that includes all the life existing on the Earth and their interaction and relationship with the elements of the lithosphere, hydrosphere and atmosphere.

4. Environment is the surrounding where an organism lives whereas ecosystem is the interaction between the environment and the organism.

5. The feeding relationship between different living things in a particular environment or habitat is called the food chain. In order to move, grow and survive, plants and animals depend on each other.

For example: The food chain in forests; plants are eaten by herbivores like rabbits, deer and giraffes. These herbivores are further consumed by carnivores like lions, tigers, and wolves. When the living things die, they decompose and become a part of nutrients present in the soil. These nutrients in turn help the plant to grow well. This is a simple food chain.

6. In order to maintain balance in the environment we should :

- (a) save natural resources such as water and minerals
(b) create awareness regarding environment protection
(c) support afforestation
(d) not kill animals



7. An area of land surrounded by water on all four sides is called an island. An island can be located in rivers, lakes, seas or oceans and is an attractive tourist destination. Andaman and Nicobar Islands are an example of islands situated in the Bay of Bengal. The continent of Australia is an island. Islands are usually formed due to volcanic activities.

A large group of islands close to each other form an archipelago. The Lakshadweep islands are an example of an archipelago. The largest archipelago in the world is Indonesia whereas Majuli Island in Assam is the largest riverine island in the world.

8. There are two types of plains — coastal plains and inner plains. Plains are best suited for agricultural activities, construction of roads and railways. These factors have led to setting up and expansion of cities and towns on plains.

Additional Questions For Practice

A. Multiple Choice Questions (MCQs) – Tick (✓) the correct options.

- | | |
|--------------------|-------------------------|
| 1. (b) lithosphere | 2. (c) stable ecosystem |
| 3. (b) plains | 4. (c) river |

B. Fill in the blanks.

- | | |
|--------------|-------------------------|
| 1. oceans | 2. producers, consumers |
| 3. Ecosystem | 4. photosynthesis |

C. Write 'T' for true and 'F' for false statements.

- | | | | |
|------|------|------|------|
| 1. T | 2. F | 3. F | 4. T |
|------|------|------|------|

D. Very Short Answer Questions

1. Biotic components : Biotic components are living organisms in an ecosystem. Ex- plants and animals
Abiotic components: Abiotic components are non-living organisms in the environment.
2. Plants take energy from the sunlight in order to prepare their food. The process of preparing own food with the help of air, water and sunlight is known as photosynthesis.
3. Our earth consists of various physical features that make it a beautiful place to live in. These are called landforms. Examples: mountains, plateaus, plains, river basins, sea and coastal plains and islands.
4. The top steep portion of the mountain is known as the peak.

E. Short Answer Question

1. Terrace farming is practised on the mountains in which land is cut into steps or terraces to grow crops.
2. Low plateaus make up good farming regions whereas high plateaus are usually grasslands that are considered great for grazing livestock like sheep, goat and cattle.
3. The sea is an essential aspect of human trade, travel, mineral extraction, and power generation.
4. Earth has all the favourable conditions that support life on it because:
 - (a) Water is abundant on the Earth's surface.
 - (b) It is strongly supposed that the Earth's distance from the Sun, its physical properties and geological history might have allowed life to evolve and thrive here.

F. Long Answer Question

Any change caused by nature or human disturbance leads to disruption of the natural balance of an ecosystem. Several factors can lead to ecological imbalance like increasing population, deforestation, misuse of natural resources, etc. There are various other human activities that contribute to the disruption of ecological balance.