

CBSE Class–VI Subject Science

NCERT Solutions

(CHAPTER-09)

THE LIVING ORGANISMS AND THEIR SURROUNDINGS

Question 1. What is a habitat?

Answer: The surrounding where plants and animals live, survive and reproduce is called their habitat.

Question 2. How are cactus adopted to survive in a desert??

Answer: Adaptation of cactus in desert:

- (i) The Leaf is modified to spine to reduce transpiration.
- (ii) Photosynthesis is carried by the stems.
- (iii) The stem is covered by thick waxy layer that helps to retain water.
- (iv) Cactus have roots that go very deep into the soil for absorbing water.

Question 3. Fill in the blanks:

- (a) The presence of specific features, which enable a plant or animal to live in a particular habitat, is called -----.
- (b) The habitats of the plants or animals that live on land are called ----- habitat.
- (c) The habitats of plants and animals that live in water are called ----- habitat.
- (d) Soil, water and air are the ----- factors of a habitat.
- (e) Changes in our surrounding that make us responds to them, are called -----.

Answer: (a) The presence of specific features, which enable a plant or animal to live in a particular habitat, is called **adaptation**.

- (b) The habitats of the plants or animals that live on land are called **terrestrial** habitat.
- (c) The habitats of plants and animals that live in water are called **aquatic** habitat
- (d) Soil, water and air are the **abiotic** factors of a habitat.
- (e) Changes in our surrounding that make us responds to them are called **stimuli**.

Question 4. Which of the things in the following list are non-living?

Plough, Mushroom, Sewing machine, Radio, Boat, Water, Hyacinth, Earthworm.

Answer: In this list Plough, Sewing machine, Radio and Boat are non-living.

Question 5. Give an example of non-living thing, which shows any two characteristics of living things.

Answer: Car is an example of a non-living thing that shows two characteristics of living things. A car can move from one place to another. Also, it requires energy just like living things.

Question 6. Which of the non-living things listed below were once parts of living thing?

Butter, Leather, Soil, Wool, Cooking gas, Apple, Rubber.

Answer: Butter, Leather, Wool, Cooking oil, Apple and Rubber.

Question 7. List the common characteristic of living things.

Answer: Common characteristic of living things.

- (i) Growth
- (ii) Need food
- (iii) Respiration
- (iv) Response to stimuli
- (v) Excretion
- (vi) Reproduction
- (vii) Movement

Question 8. Explain, why speed is important for survival in the grasslands for animals that live there. (Hint: There are few trees or places for animals to hide in grasslands habitats)

Answer: In grasslands, mainly grasses are found. Trees are very few in number. Predators such as lion, tiger, etc. that feed upon other animals are commonly found in these regions. It is very easy for these predators to locate their prey in the grass. Therefore, to protect themselves from these predators, animals adapt themselves by increasing their speed. The increased speed of the animal helps the weaker animals to escape their predator, thereby protecting themselves and increasing the chances of their survival.