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STUDY NOTES

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Science

CHAPTER: 9 Organisms and their surroundings

Today's Topic: Living things respire

Plants also respond to stimuli. The flowers of some plants bloom at night. Flowers of some plants close after sunset. The sunflower always moves in the direction of the sun. The touch me-not plant closes its leaves when touched. The pitcher plant closes its flap as soon as an insect sits on it.

Let us perform the following activity to show plants respond to light.

Activity 4:

Take a potted plant and place it away from a window through which sunlight enters the room. Water the plant for a few days. Does the plant grow upright? In which direction does the plant grow? The plant does not grow upright as other plants kept in the open. It bends towards the window from where sunlight is coming, showing that plants respond to light.

Thus, living things have some common characteristics. All living things need food, they reproduce, they respire, they show movement, they grow and respond to stimuli.

Non-living things also grow in size such as clouds, they show movement such as in vehicles, the moon moves around the earth, the earth moves around the sun. However, non-living things do not have all the above characteristics of living things.

Another important characteristic of all living things is that all living things die. All human beings, animals and plants die. However, the span life time may be different in different living organisms. Organisms survive for thousands of years because they reproduce their own kind.

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HOMEWORK (Based on Previous Study Notes)

Now answer the following questions:-

A. Choose the correct answer:

1. A camel

(a) Sweats a lot (b) does not sweat

(c) can be (a) and (b) (d) none of the above

2. The leaves of a cactus plant are modified into

(a) thorns (b) spines

(c) needles (d) all the above

3. The mountain goat has strong

(a) hind limbs (b) fore limbs

(c) hooves (d) nails

4. The dolphins breathe through

(a) blowholes (b) blowpipes

(c) blow horns (d) blow drums

5. The tiny pores on the leaves are called

(a) air holes (b) passages

(c) stomata (d) lenticel

B. Fill in the blanks:

1. The habitat of land animals is called _____ habitat.

2. Sunlight is an example of _____ component.

3. In mountain regions trees are normally _____ shaped.

4. Ponds are habitats of _____.

5. Breathing is a part of a process called _____.