CBSE Class 4 EVS
NCERT Solutions
Chapter 19
Abdul In The Garden

Abdul in the Garden (Page 158)

Q.1. The stick which was stuck in the ground fell very easily. It was difficult to pull out a small grass. Why?

Ans. Grass has roots which grip it to the soil. There is no root in the stick. So, it is easy to pluck the stick but not grass.

Q.2. Do all plants have roots?

Ans. Yes.

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Q.1. Look at some plants and trees around you. Imagine how deep and spread out the roots of these are.

Ans.

Grass	-	5 inches
Potato	-	1 foot
Marigold	-	1 foot
Mango	-	4-5 meters

Q.2. After three days. Abdul saw that one broken part of the pea plant had dried. Guess which part would have dried up? Why?

Ans. The leaves dried up. Due to the broken part, water sucked by root could not reach there.

Q.3. Why do you think the Neem tree did not fall despite the strong wind?

Ans. There are roots which hold the tree in soil.

Q.4. On putting water in the soil where the plants are growing, the droping become fresh again. How?

Ans. The roots of the plants suck the water from the soil which reaches the leaves.

Q.5. What do you feel, do all plants need water?

Ans. Yes.

Q.6. What of the plants around you need regular watering?

Ans. The plants that dry up.

Q.7. Abdul realized that he never watered the huge Neem tree. Which of the plants you do not need watering? Where do they get water form?

Ans. Neem, Mango, Peepal, etc. Do not need watering. They have roots deep in the soil which suck water.

Q.8. Abdul wondered whether radish was a root. Why did he think so?

Ans. Yes radish has a root. It is a special kind of root which also serves as the storage of food.

Q.9. Find out and write which of these vegetables are the roots of a plant?

Ans. Radish, Beat root, cabbage.

Abdul has more Question (Page 160)

Nowadays abdul keep thinking about all kinds of plants that he sees.
Abdul saw a plant growing out of a wall in school. Abdul wondered:
(i) How deep must the roots of this plant be going?

Ans. The plant's, roots reach the soil.

(ii) How do the roots get water?

Ans. Roots get water from soil.

(iii) How big will this plant grow?

Ans. These plants don't grow very much.

(iv) What will happen to the wall?

Ans. The crack on the will be increased.

(v) Have you ever seen a plant growing from a crock in a wall, window or edge? Where was it?

Ans. Yes, it's the boundary wall of our school.

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Q.1. Abdul saw a huge tree that had fallen on the roadside. He could see some of its broken roots. Abdul thought:
(i) How deep in the ground would these roots have gone?

Ans. 2 -3 meters.

(ii) How much would they have spread?

Ans. 3 -4 meters.

Q.2. Would someone have uprooted such a big tree, or would it have fallen on its own?

Ans. Yes, it has fallen on is own.

Q.3. Many birds and insects must have lived on this tree. What would have happened to them?

Ans. The birds would lose their nest. Many insects would die.

Q.4. Who all would have played in the shade of the tree?

Ans. All small children living nearby.

Let us talk (Page 161)

Q.1. Which are the oldest trees in your area? Find out how old the trees are.

Ans. In my area, the oldest tree is a banyan tree. People say that it is about 500 years old.

Q.2. Have you seen a big tree that has fallen down? What did you think when you saw it?

Ans. Yes. I have seen a big mango tree uprooted by storm. I was amazed by the strength of the storm.

Unusual Roots (Page 162)

Q.1. Have you swung from a banyan tree?

Ans. Yes.

Let us do this (Page 163)

Q.1. Observe the change that take place for the next 10 to 12 days?

Ans. Seedlings come out of the seed.

Q.2. What difference do you observe in the seeds after soaking? Compare with dry seeds and write.

Ans. The soaked seeds sprout while the dry seeds do not sprout.

Q.3. What do you think would happen if the cotton wool had been left dry?

Ans. The seeds will not sprout.

Q.4. In which direction did the roots grow? And the stem?

Ans. Roots grow in the downward direction. The stem grows in the upward direction.

Q.5. How big did the plant grow in the cotton wool?

Ans. No. Only soaked seeds gave rise to new plants.

Q.6. What is the colour of the roots?

Ans. No. Only soaked seeds give rise to new plants.

Q.7. What is the colour of the roots?

Ans. Yes.

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Q.1. Try and pull out one little plant from the cotton wool. Were you able to pull it out? Why?

Ans. It was difficult to pull out. The roots grip the cotton.

Q.2. Did you see how the roots grip the cotton wool? Do you think that the roots hold the soil in the same way? Also look at plants grown by your friends.

Ans. Yes. The roots grip the soil in the same way.

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Q.1. Arif and Roopay had different ideas about which things grow. Arif said these grow: Leaves, Munna, bud, puppy, nails, car. Roopaly said these grow: Moon, tree, myself, hair, watermelon.
What do you think? Which of these grows?

Ans. Leaves, Munna, bud, puppy, nails, tree, Roopaly, hair, watermelon.

Q.2. Why don't you make youir own list?
Your list can include the names in Arif's and Roopaly's list.

Ans. Man, cat, dog, mango, monkey, camel, plants.

Q.3. Of the things that grow, which of them:

Ans.

Walk	:	Man, cat, dog, monkey, camel
Eats and drinks	:	Man, cat, dog, monkey, camel
Sleeps	:	all
Breathe	:	all
Can feel pain	:	all

Think about yourself. In what ways have you changed? Has your height increased? For example.

Q.1. How much taller have your grown in the last one year?

Ans. Yes. ½ feet.

Q.2. What other part of your body keeps growing? Some people cut it regularly. Imagine that you had never cut your nails! Draw a picture to show how you would look.

Ans.