

## CH-19-Abdul in the Garden

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(Q1) The stick which was stuck in the ground fell very easily. It was difficult to pull out a small grass. Why?

Ans: The roots of grass were firmly holding the grass with soil, while the stick has no roots. So, it is difficult to pull out small grass.

(Q2) Do all plants have roots?

Ans: Yes, all plants have roots.

(Q3) Look at some plants and trees around you. Imagine how deep and spread out its roots of these areas?

Ans: Small plants have roots in the ground from two inches to 10 inches deep, while a tree has 5 to 10 feet deep roots in the ground. Roots of some plants go as deep as 60 feet into the ground.

(Q4) 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 of the broken part of the pea plant dried. Because the plant did not get water and mineral from the soil.

(Q5) Why do you think the neem tree did not fall despite the strong wind?

Ans:- Neem trees have big, strong and deep roots in the soil that hold the tree strongly. That's why neem trees did not fall in spite of strong wind.

(Q6) On putting water in the soil where the plants are growing, its dropping leaves become fresh again. How?

Ans:- Leaves and other parts of a plant get water and other necessary items through its roots. Because of that leaves get energy after giving water near the roots and dropping leaves get fresh.

(Q7) What do you feel, do all plants need water?

Ans: Yes, all plants need water.

(Q8) Which of the plants around you need regular watering?

Ans:- Flowers need regular watering.

(99) What will happen to these plants  
Ans:- In the scarcity of water most of them would die.

(100) Abdul realised that he never watered the huge neem tree. "Where did it get its water from?" He thought. "Which of the plants around you do not need watering? Where do they get water from? Make two guesses."

Ans:- The roots of big trees like neem go deep into soil. These deep roots suck water from the soil. Other such big trees like, mango, banian, etc do not require us to water them.

(101) Abdul wondered whether radish was a root. Why did he think so?  
Ans:- Yes, radish is a root. We eat the roots of many plants, radish is one of them. The fact that radish grows under the ground must have made Abdul think that it is a root.

(Q12) Look at the pictures below and find out which of these vegetables are roots.

Ans:- Following vegetables are roots - Radish, Carrot, Beet, Red Cabbage.

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(a) Abdul saw a huge tree that fallen on the roadside. He could see some of its broken roots. Abdul thought:

(a) Would someone have uprooted such a big tree or would it have fallen on its own?

Ans:- Strong winds uprooted the tree.

(b) How old would this tree be?

Ans:- This tree would be about 50 years old.

(c) Abdul on seeing a tree surrounded by cemented ground, thought that how will it get rain water?

Ans:- The tree gets water through its roots which go deep into the soil.

### Unusual Roots

(a) Have you swung from a banyan tree? What did you hold to swing?

Ans:- Yes, when I go to my village I swung from banyan tree. I held rope like

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thick structures which was hanging from the branches of the tree.

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(a) 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.

(a) What do you think would happen if the cotton wool had been left dry?

Ans. The seeds will not sprout.

(a) In which direction did the roots grow? And the stem?

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

(a) How big did the plant grow in the cotton wool?

Ans. The plant will grow up to 4 cm.

(a) Did small plants come out from the seeds?

Ans. No, only soaked seeds gave rise to new plants.

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