

NCERT SOLUTIONS

CLASS - 4th



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Class : 4th
Subject : EVS
Chapter : 19
Chapter Name : Abdul In The Garden

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

Answer. 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.

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Q2 Do all plants have roots?

Answer. Yes all the plants have roots with them.

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Q3 Look at some plants and trees around you. Imagine how deep and spread out the roots of these are.

Answer. Grass - 5 inches

Potato - 1 foot

Marigold - 1 foot

Mango - 4-5 meters

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Q4 After three days, Abdul saw that one broken part of the pea plant had dried. Guess which part would have dried up? Why?

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

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

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

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

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

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

Answer. Yes, all plants do need water for their growth.

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Q8 Which of the plants around you need regular watering?

Answer. The plants that dry up needs water at regular basis.

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Q9 What will happen, If nobody gives water to these plats?

Answer. The plants will get dry and end up drying.

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Q10 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.

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

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Q11 Abdul wondered whether radish was a root. Why did he think so?

Answer. Yes radish is a root because it grows under the soil. It is a special kind of root which also serves as storage of food.

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

Answer.

These vegetables are roots



Radish



Carrot



Beet



Root cabbage

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Q1 Abdul saw a plant growing out of a wall in school. He wondered–

- (i) How deep must the roots of this plant be going?
- (ii) How do the roots get water?
- (iii) How big will this plant grow?
- (iv) What will happen to the wall?
- (v) Can you give the name of the plant in the picture?

Answer. (i) The plant's, roots reach the soil.

(ii) Roots get water from soil.

(iii) These plants don't grow very much.

(iv) Its crack will be increased.

(v) Yes, it is a peepal plant.

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Q2 Have you ever seen a plant growing from a crack in a wall? Where was it? Did you have any questions when you saw it?

Answer. Yes I saw a plant that grew over a wall at my school . That was the back wall of my school. I had some questions in my mind when I saw the plant.

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Q3 What were some of your questions? Ask elders and find the answers. Find out the name of the plant you saw.

Answer. Question in my mind was from where the seed of that plant come on the wall?

And the Answer Is - The seed of the tree was carried by a bird to the wall.

Also that was banyan plant.

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Q4 Abdul saw a huge tree that had fallen on the roadside. He remembered the neem tree in his courtyard. He could see some of its broken roots. Abdul thought–

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

(ii) How old would this tree be?

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

Answer. (i) Strong winds uprooted the tree.

(ii) This tree would be about 50 years old.

(iii) The tree gets water through its roots which go deep into the soil.

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Q1 Which are the oldest trees in your area? Find out from your elders how old the trees are?

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

Page : 161 , Block Name : Let Us Talk

Q2 Name animals who live on this tree.

Answer. A group of parrots and a pair of squirrels lives on this tree.

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Q3 Have you ever seen any big tree that had fallen down? What did you think when you saw it?

Answer. Yes I have seen a big tree that had fallen down due to flood at the bank of a river, I was very amazed when I saw it.

Page : 161 , Block Name : Let Us Talk

Q1 Have you swung from a banyan tree? What did you hold to swing?

Answer. Yes, when I go to my village I swung from banyan tree, I held rope like thick structures which was hanging from the branches of the tree..

Page : 161 , Block Name : Unusual Roots

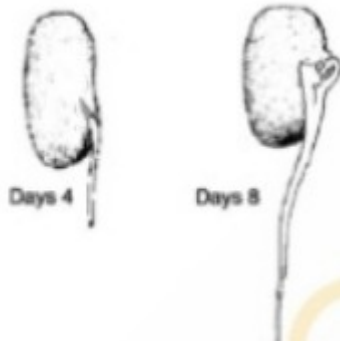
Q2 Have you seen any tree which has roots growing from its branches?

Answer. Yes the big banyan in my village and another one in the garden has several lng roots like structures growing from its branches.

Page : 162 , Block Name : Unusual Roots

Q1 Did you observe the seedlings come out of the seeds? Draw the picture of the seedling as it looks on the fourth and the eighth day.

Answer. Seedlings came out only after three days.



Page : 163 , Block Name : Let Us Do This

Q1 What difference did you observe in the seeds after soaking? Compare with dry seeds and write.

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

Page : 163 , Block Name : Write In Your Notebook

Q2 What do you think would happen if the cotton wool had been left dry?

Answer. The seeds will not sprout.

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Q3 In which direction did the roots grow? And the stem?

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

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Q4 How big did the plant grow in the cotton wool?

Answer. The plant will grow up to 4 cm.

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Q5 Did small plants come out from all the seeds?

Answer. No, Only soaked seeds gave rise to new plants.

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Q6 What is the colour of the roots?

Answer. It is off white.

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Q7 Did you see any hair on the roots?

Answer. After 8 days small hairs grew on the roots.

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Q8 Try and pull out one little plant from the cotton wool. Were you able to pull it out? Why?

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

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Q9 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 the plants grown by your friends.

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

Page : 164 , Block Name : Write In Your Notebook

Q1 What do you think? Which of these things listed by Arif and Roopali grow?

Answer. All the things in the list of Arif and Rupali grow.

Page : 165 , Block Name : What Grows

Q2 Why don't you make your own list of things that grow? Your list can include the names of things that are in Arif 's and Rupali's list.

Answer. Man, cat, mango, monkey, camel, plants, etc grows.

Page : 165 , Block Name : What Grows

Q1 Has your height increased? How much taller have you grown in the last one year?

Answer. Yes my height has increased by $\frac{1}{2}$ feet.

Page : 165 , Block Name : Think About Yourself

Q2 Imagine that you had never cut your nails! Draw a picture of your fingers in the notebook to show how they would have looked.

Answer. DIY

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Q3 What other part of your body (some people cut it regularly) keeps growing?

Answer. My hairs keep growing.

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