

NCERT SOLUTIONS

CLASS - 5th



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Class : 5th
Subject : Environmental Studies
Chapter : 1
Chapter Name : Super Senses

Q1 How did the ant know that the other ants were not from its group?

Answer. Just like us, animals also have different senses. They can see, hear, Snell and feel. Due to these abilities, the ant cane to know that the other ants were not from its group.

Page : 2 , Block Name : Think And Tell

Q2 How did the guard ant recognise this ant?

Answer. Some animals can find their friends by their smell. The guard ant recognized this ant by its smell.

Page : 2 , Block Name : Think And Tell

Q1 Drop some sugar, jaggery or anything sweet on the ground. Wait until the ants conk there. How long did it take for the ants to come?

Answer. It took 15-20 minutes for ants to come.

Page : 2 , Block Name : Try This And Write

Q2 Did one ant come first or a group of ants come together.

Answer. One ant came first then the group comes afterward.

Page : 2 , Block Name : Try This And Write

Q3 What did the ants do with the food?

Answer. Ants carried the food to their hole.

Page : 2 , Block Name : Try This And Write

Q4 Where do they go from there?

Answer. They go to hole from there.

Page : 2 , Block Name : Try This And Write

Q5 Do they move a line?

Answer. Yes, they move in a line.

Page : 2 , Block Name : Try This And Write

Q6 Now carefully, without harming the ants block their path for a while with a pencil. Now observe, how do the ants move?

Answer. Ants climb up on the pencil but move in a line only.

Page : 3 , Block Name : Try This And Write

Q7 Now you can guess why the ants behaved like that when you blocked their path ?

Answer. As the ants move they leave a smell on the ground. The other ants follow the smell to find the way. So, when their path was blocked, ants tried to maintain their original path by following the scent.

Page : 3 , Block Name : Try This And Write

Q8 Have you ever been troubled by mosquitoes? Just think, how do they know where you are?

Answer. Mosquitoes find us by the smell of our body, socks of feet and also by the heat of our body.

Page : 3 , Block Name : Try This And Write

Q9 Have you seen a dog sniffing here and there? What do you think It Is trying to smell?

Answer. Yes, I have seen dogs sniffing here and there. A dog can make out if another dog had come into their area by the smell of its urine. So, in order to check out whether any other dog has come out or not, a dog sniffs here and there.

Page : 3 , Block Name : Try This And Write

Q1 In what ways do human beings use this special sense of smell of dogs?

Answer. We use this special sense of smell of dogs to catch criminals, recover the stolen goods, search out bombs and explosives, etc.

Page : 4 , Block Name : Write

Q2 When do you find your sense of smell helpful to you? List some examples. Like-to know by its smell that food has gone bad or that something is burning.

Answer. Besides smelling the bad food and the smell of burning our sense of smell helps us to choose good food, perfume, soap, incense stick etc. and also to find out if any cloth stinking due to sweat.

Page : 4 , Block Name : Write

Q3 Name the animals that you would be able to recognize only by their smell, without seeing them?

Answer. We can recognize animals like dog, cat, cow, buffalo, goat etc. by their smell.

Page : 4 , Block Name : Write

Q4 Write the names of five things whose smell you like and five things whose smell you do not like.

Answer.

I like the smell of	I don't like the smell of
1. Food	1. Filth
2. Perfume	2. Death and decaying things
3. Flower	3. Drains
4. Cosmetic items	4. Gutter
5. Incense stick	5. Bad smelling chemicals

Page : 4 , Block Name : Write

Q5 Do you and your friends have similar answers?

Answer. Yes our answers are more or less the same.

Page : 4 , Block Name : Write

Q6 Do you and your friends have similar answers?

Answer. Yes our answers are more or less the same.

Page : 4 , Block Name : Write

Q1 From the smell of the clothes of your family members, can you say whom do they belong to? Try to recognize the clothes of any two members of your family In this way.

Answer. Yes, I can recognize the clothes of some members of my family by smelling their clothes. I recognize the clothes of My Mother , My Father.

Page : 4 , Block Name : Do And Out

Q2 Sushila covered her nose when she cleaned Deepak's nappy, but now when she cleaned her daughter. Why do you think she did this?

Answer. We often find a smell "bad" when we think it is from something dirty. If we nuke up our mind, we may not so offend by certain smells. So. Sushila covered her nose when she cleaned Deepak's nappy, but not when she cleaned her daughter.

Page : 5 , Block Name : Do And Out

Q3 How do you feel When you walk near a heap of garbage? Think of the children who spend the whole day picking garbage things from such garbage?

Answer. I feel bad when I walk near a heap of garbage. The children who spend the whole day picking things from such garbage may not find it so bad because once we make up our minds; we may not so by such smells.

Page : 5 , Block Name : Do And Out

Q4 Is a smell 'good' or 'bad' for everyone In the same way? Or does It depend on how each one feels

about It?

Answer. A smell is good or bad depends on how each one thinks about it.

Page : 5 , Block Name : Do And Out

Q1 Write the name of a bird which has eyes In form of Its head. (Ilke in humans).

Answer. An owl is one such bird.

Page : 6 , Block Name : Let's See

Q2 Write the names of some birds which have eyes on either side of the head. What is the size of their eyes as compared to the size of their head?

Answer. Birds like a crow, pigeon, parrot sparrow, eagle, etc. have eyes on either side of the head. The size of their eyes is very small as compared to the size of their head.

Page : 6 , Block Name : Let's See

Q1 Could you see your friend's action, without moving your neck?

Answer. No, I could not see it.

Page : 6 , Block Name : Looking With One Or Both Eyes

Q2 Now try to look at your friend's action with both eyes open but without your neck.

Answer. The viewing area increases when we see with both eyes.

Page : 6 , Block Name : Looking With One Or Both Eyes

Q3 What was the difference on making with one or both eyes?

Answer. I can see things better with both my eyes.

Page : 6 , Block Name : Looking With One Or Both Eyes

Q4 Now toss a small ban or a coin and try to catch It. Try this with both your eyes open. Then close one eye and try to catch It. When was It easier to catch?

Answer. When eyes were open, it was easier to catch the coin.

Page : 7 , Block Name : Looking With One Or Both Eyes

Q5 Imagine how it would be to have your eyes in place of your ears? What would you be able to do then, which you cannot do now?

Answer. If my ears were in place of my ears, I would have been able to see all the things to my right and left clearly.

Page : 7 , Block Name : Looking With One Or Both Eyes

Q1 Now can you guess from what distance can an eagle In the sky see a roti on the ground?

Answer. The vision of an eagle is much powerful than that of ours. An eagle can see a roti on the ground from a distance of about one and a half of two kilometers.

Page : 7 , Block Name : Write

Q2 The names of ten animals whose ears can be seen.

Answer. Cow, buffalo, ox, horse, donkey, dog, deer, elephant, rabbit, monkey.

Page : 8 , Block Name : Write

Q3 The names of some animals whose ears are than our ears.

Answer. The ears of elephant, rabbit, cow, buffalo, ox, dog etc. are bigger than that of ours.

Page : 8 , Block Name : Write

Q1 Is there some link between the size of animal's ears and their hearing?

Answer. I think there may be some link between the size of animal 's ears and their hearing. The animals with larger ears can hear well because their ears can collect more sound waves.

Page : 8 , Block Name : Try This

Q2 For this activity find a quiet place In your school. Tell one of your friends to stand at a small distance and ask him to say something softly. The rest of you should listen carefully. Then all of you put your hands behind your ears, as shown In the picture. Let the same child say something again as softly as before. In which case was the sound sharper? Ask your friends too.

Answer. When I put my hands my ears, the sound was sharper.

Page : 8 , Block Name : Try This

Q3 Put your hands over your ears and say something. Can you hear your own voice ?

Answer. Yes, I can hear my own voice.

Page : 8 , Block Name : Try This

Q4 Sit near a desk. Tap the desk once with your hand. Listen Now put your ear on the desk. Tap on the desk once again with your hand. Listen again. Was there any difference in the sound of the tap?

Answer. Yes, when I put my ear on the desk, the sound was sharper.

Page : 9 , Block Name : Try This

Q1 Can you understand the sounds of some animals? Which animals?

Answer. Yes, I can recognize the sounds of few animals like dog, cow, cat, horse etc.

Page : 10 , Block Name : Write

Q2 Do some animals understand your language? Which animals?

Answer. Yes Some pet animals like dog, cow, ox, horse, parrot etc. can understand our language and

gestures.

Page : 10 , Block Name : Write

Q1 Just like birds and dolphins you can also make your own language of sounds for giving messages. Remember you have to talk to your friends with only sounds and no words. How and when will you need to give an alarm call? For example, when the teacher is coming to the classroom!

Answer. You and your friends can produce some sounds like or beep beep or trin-trin for a specific purpose like when the teacher is coming to the classroom. All the other will follow according to the alarm.

Page : 10 , Block Name : Say It With Sounds

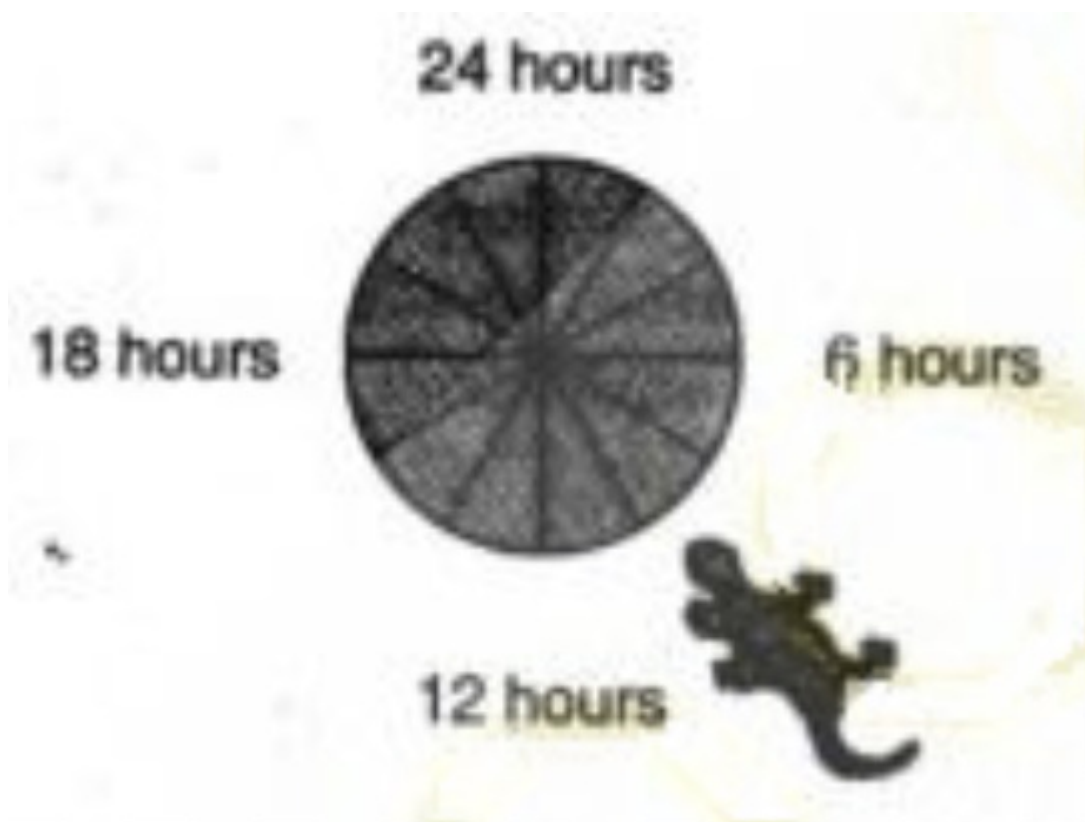
Q1 Have you noticed that during the cold season you cannot see any lizard in the house? Where do you think they have gone?

Answer. Yes, I have noticed it. I think to protect them from cold; they shift to some safe and conductive place.

Page : 10 , Block Name : Sleeping Walking

Q2 How will you show the clock for a house-lizard in winters?

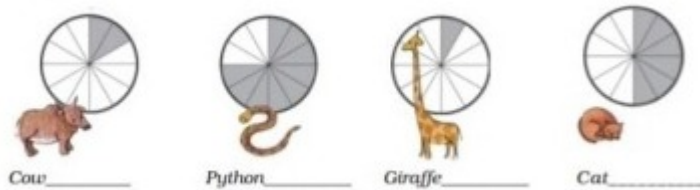
Answer. The gray color shows the sleeping time for the lizard in winters.



Page : 11 , Block Name : Sleeping Walking

Q3 Given here is the sleeping time of some animals. Below each picture write how many hours a day that animal sleeps.

Answer. Cow — 4 hours
Python — 18 hours
Giraffe — 2 hours
Cat — 12 hours



Page : 11 , Block Name : Sleeping Walking

Q4 When you see different animals, do you have any questions about them?
Make a list of ten such questions.

Answer. Yes when I see different animals, many questions arise in my mind like:

1. Can these animals talk with each other?
2. Can these animals understand our language?
3. Can these animals understand each-others language?
4. Can these animals understand one another's feelings?
5. How can these animals guess the imminent natural calamity much it happens?
6. How nwch useful are these animals?
7. If there were no animals on the earth, what would have happened?
8. What will happen if all animals are killed?
9. Why some animals are pet and some are wild?
10. Why different animals have different food habits?

Page : 11 , Block Name : Sleeping Walking

Q5 The tiger is one of the most alert animals. And yet, today Tigers are In danger. What do you think are some of the dangers to tigers In the Jungle?

Answer. The biggest threat to tigers is from hunters and poachers who kill them for their skins. Besides they are threatened by other powerful animals like the lion. Dangers are ako from the destruction of forests, Kyrest fibers and the growing imbalance in nature.

Page : 12 , Block Name : Sleeping Walking

Q6 Can human beings also be a threat to animals? How?

Answer. Yes, human beings are also a threat to animals. Due to continuous poaching, many animals have either go extinct or have come to the stage of extinction. Elephants are killed for their tusks; rhinoceros their hones, tigers; crocodiles, and snakes for their skins and so on. Musk deer are killed to prepare scent from their musk Further, growing human interference and destruction of have only aggravated dangers to these animals.

Page : 12 , Block Name : Sleeping Walking

Q1 Where are other such National Parks In India?

Answer. There are many National Parks in India. Some of these are:

1. Kanha National Park (Madhya Pradesh)
2. Kaziranga National Park (Assam)
3. Gir National Park (Gujarat)
4. Ranthambhore National Park (Rajasthan)
5. Nagarhole National Park (Mysore)
6. Palamau National Park (Jharkhand)

Page : 12 , Block Name : Find Out

Q2 Collect information on these and write a report.

Answer. There are many species of birds and animals found in India. To protect them, our government has made more than 75 National Park and more than 425 Sanctuaries. These cover about 4.5% of the total land area of the country and are spread from Jammu & Kashmir to Tamil Nadu and from Gujarat to Assam.

Page : 12 , Block Name : Find Out

Q1 Have you noticed that sometimes singers put their hand on their ear when they sing? Why do you think they may be doing this?

Answer. Yes, I have noticed the same. I think they do so because after putting their hand on their ear, they not only protect themselves from the noise but also hear their own voice more clearly. This helps them to sing better.

Page : 12 , Block Name : What We Have Learnt

Q2 Give of animals that may have very strong sense of sight, hearing or smell.

Answer. Some examples are given below.

- (1) One dog can know if another dog has come into its area by the smell of its urine or poo.
- (2) A kite can see a piece of bread from a height of about two kilometers.
- (3) Some animals begin to behave in a different manner guessing any natural calamity.
- (4) Mosquitoes find a human being by the smell of its body or feet or by the heat of the body.
- (5) A silkworm can find his female moth from many kilometers away by her smell.

Page : 12 , Block Name : What We Have Learnt