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Answers

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CHAPTER 1

Living and Non-Living Things

50 multiple-choice questions



In this chapter

50 questions, 100 marks. For each question, four options are given. One of them is the correct answer. Write the number of the correct option in the brackets. The answers are on page 145.

- Set A: Check Your Facts: 15 questions
- Set B: Apply the Ideas: 20 questions
- Set C: Experiments and Data: 15 questions

Name: _____ Class: _____ Date: _____

PRIMARY 3 · SCIENCE · LIVING AND NON-LIVING THINGS

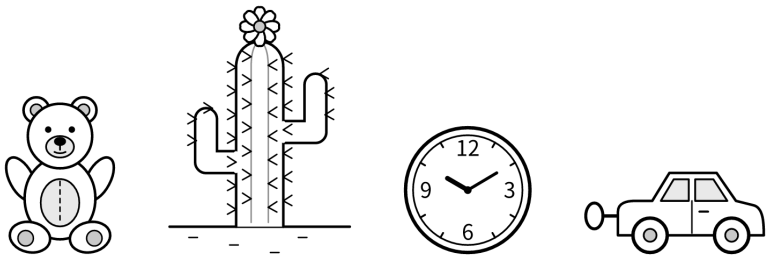
Living and Non-Living Things

INSTRUCTIONS

- 50 questions, 100 marks in total.
- For each question, four options are given. One of them is the correct answer.
- Write the number of the correct option (1, 2, 3 or 4) in the brackets.

Set A: Check Your Facts

1 The pictures show a teddy bear, a cactus plant, a clock and a toy car.
Which one is a living thing? ( ) [2]



(1) **(2)** **(3)** **(4)**

(1) Diagram (1) (2) Diagram (2) (3) Diagram (3) (4) Diagram (4)

2 All living things need _____ to survive. ( ) [2]

(1) air, food and water
(2) air, water and sunlight
(3) food, water and soil
(4) air, food and a home

3 Ben's baby sister had a mass of 3 kg when she was born. When she was one year old, her mass was 9 kg.
Which characteristic of living things does this show? ( ) [2]

(1) Living things reproduce.
(2) Living things respond to changes around them.
(3) Living things need air, food and water to survive.
(4) Living things grow.

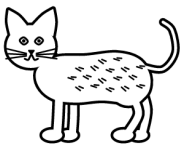
4 Aisyah clapped her hands loudly beside a pond. At once, the frogs at the edge of the pond jumped into the water.
Which characteristic of living things does this show? ( ) [2]

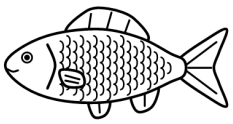
(1) Living things grow.
(2) Living things reproduce.
(3) Living things respond to changes around them.
(4) Living things need water to survive.

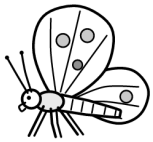
5 Which group of living things can make its own food? ( ) [2]

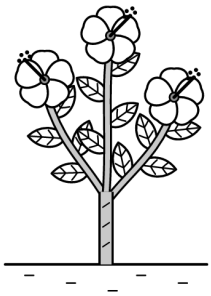
(1) animals (2) fungi (3) plants (4) bacteria

6 Ben says, "All living things can move from place to place."
Which living thing shows that Ben is WRONG? ( ) [2]


(1) cat

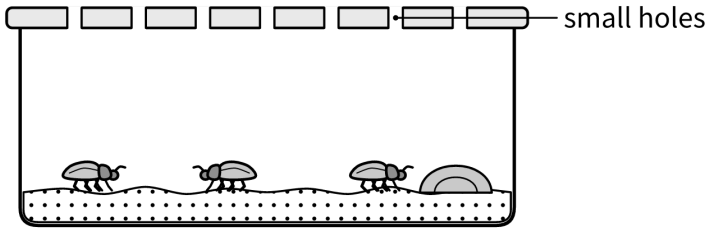

(2) fish


(3) butterfly


(4) hibiscus plant

(1) Diagram (1) (2) Diagram (2) (3) Diagram (3) (4) Diagram (4)

7 Kai Xin keeps three beetles in a plastic container for a few days to observe them. The lid has small air holes in it. In the diagram they are the gaps in the lid.
Why are there small holes in the lid? ( ) [2]



1. to let the beetles climb out
2. to let light in so that the beetles can see
3. to allow air to enter, because living things need air to survive
4. to let water drain out of the container

8 Mr Tan kept some snails in a tank in the science room. He did not add any snails to the tank. The table shows what he found.
Which characteristic of living things does this show? ( ) [2]

Week	Number of snails in the tank
Week 1	3
Week 6	11

1. Living things reproduce.
2. Living things grow.
3. Living things respond to changes around them.
4. Living things need food to survive.

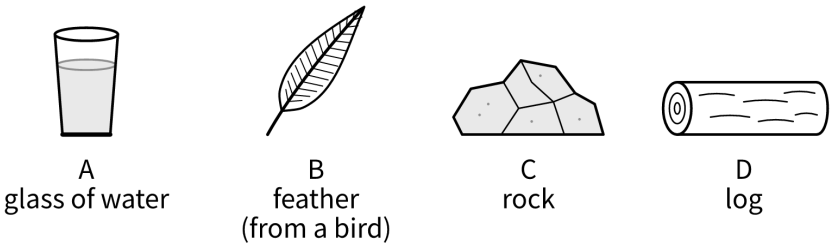
9 Which of the following is NOT true of ALL living things? ( ) [2]

1. They grow.
2. They make their own food.
3. They reproduce.
4. They respond to changes around them.

10 Which of the following statements about bacteria are correct?
A: They are living things.
B: They can be seen with our eyes alone.
C: They are found everywhere. ( ) [2]

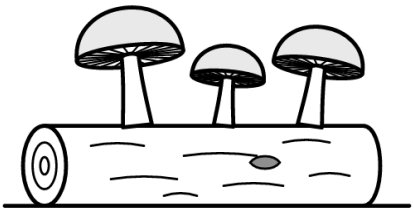
1. A only
2. A and C only
3. B and C only
4. A, B and C

11 The pictures show four things, A, B, C and D.
Which of them were once part of a living thing? ( ) [2]



1. A and C only
2. A and D only
3. B and C only
4. B and D only

12 Kai Xin saw these mushrooms growing on a rotting log in the park.
Why are the mushrooms NOT plants? ( ) [2]



1. They cannot make their own food.
2. They are non-living things.
3. They cannot move from place to place.
4. They do not need water to survive.

13 When we classify things, we put them into groups. What is true of the things in the same group? ( ) [2]

1. They are alike in some way.
2. They are different in every way.
3. They are all living things.
4. They are all the same size.

14 Ben's family made a campfire at the beach. The fire needed air to keep burning.
It became bigger when more wood was added.
Why is the fire a non-living thing? ( ) [2]



campfire

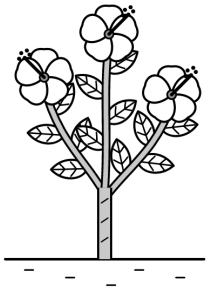
1. It is very hot.
2. It cannot reproduce, and it does not respond to changes around it.
3. It does not need air.
4. It cannot move from place to place.

15 Aisyah picked up a dried leaf from the ground.
Which of the following statements about the dried leaf are correct?
A: It was once part of a living thing.
B: It is a living thing now.
C: It cannot grow or reproduce. ( ) [2]

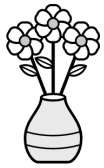
1. A only
2. B only
3. A and B only
4. A and C only

Set B: Apply the Ideas

16 Kai Xin has a hibiscus plant and a vase of plastic flowers.
Which of the following is a difference between them? ( ) [2]



hibiscus plant



plastic flowers

1. The plastic flowers have petals but the hibiscus plant does not.
2. The hibiscus plant can move from place to place but the plastic flowers cannot.
3. The hibiscus plant needs air, food and water to survive but the plastic flowers do not.
4. The plastic flowers grow but the hibiscus plant does not.

17 Aisyah says that her wooden chair is a living thing, because wood comes from a tree.
Which is the BEST reason why she is wrong? ( ) [2]

1. The wood no longer needs air, food and water, and it cannot grow or reproduce.
2. A tree is not a living thing.
3. The chair cannot move by itself.
4. The chair has four legs.

18 Ben wrote three sentences about his pet goldfish.
A: It swam quickly to the bottom of the tank when Ben tapped the glass.
B: It is orange in colour.
C: It is 3 cm longer than it was last year.
Which sentences show that the goldfish is a living thing? ( ) [2]

1. A and B only
2. B and C only
3. A and C only
4. A, B and C

19 Which of the following show a living thing responding to a change around it?
A: Kai Xin blinks when dust blows towards her eyes.
B: A lift door closes when Mr Tan presses a button.
C: The leaves of a mimosa plant fold up when a ball hits them.
D: A kite rises when the wind blows. ( ) [2]

1. A and B only
2. B and D only
3. C and D only
4. A and C only

20 Ben observed three things, W, X and Y. The table shows what he found out.
Which of them could be living things? ( ) [2]

Thing	Grows	Moves from place to place	Reproduces
W	No	Yes	No
X	Yes	No	Yes
Y	Yes	Yes	Yes

(1) X and Y only (2) W and Y only (3) Y only (4) W, X and Y

21 Aisyah wrote down three observations.
P: A hen's eggs hatched into chicks.
Q: A sunflower seedling became 20 cm taller in a month.
R: A cockroach ran away when the kitchen light was switched on.
Which row shows the characteristic of living things that each observation shows? ( ) [2]

(1) P: grow, Q: reproduce, R: respond
(2) P: reproduce, Q: grow, R: respond
(3) P: reproduce, Q: respond, R: grow
(4) P: respond, Q: grow, R: reproduce

22 Mr Tan gave his class clues about two living things, P and Q.
P: It cannot make its own food. It can be seen only with a microscope.
Q: It makes its own food. It cannot move from place to place.
Which row shows the groups that P and Q belong to? ( ) [2]

(1) P: fungi, Q: animals
(2) P: bacteria, Q: animals
(3) P: plants, Q: bacteria
(4) P: bacteria, Q: plants

23 Kai Xin put six things into two groups, X and Y, as shown in the table.
Which row shows the BEST headings for Group X and Group Y? ( ) [2]

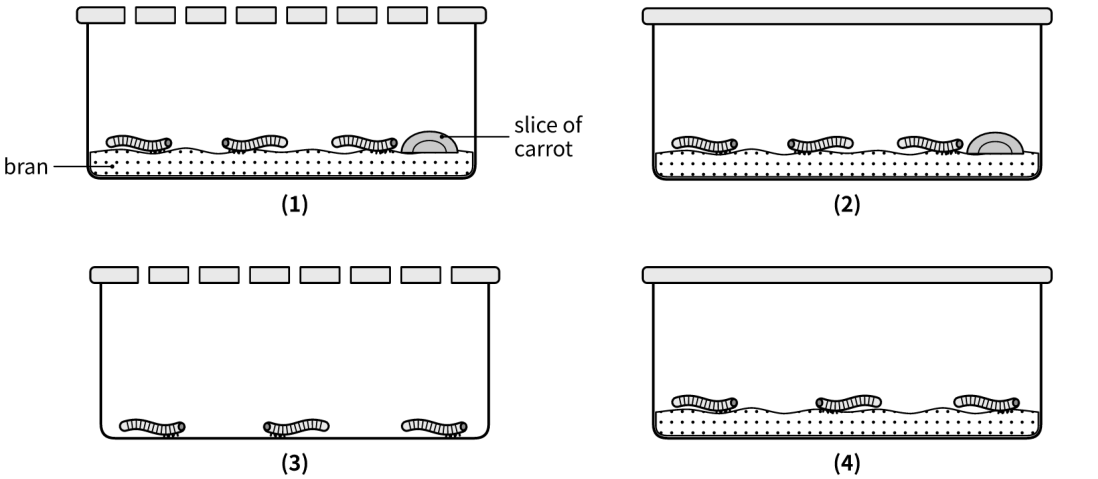
Group X	Group Y
frog	robot
sunflower plant	kite
mould	cloud

(1) X: plants, Y: animals
(2) X: living things, Y: non-living things
(3) X: things that move, Y: things that do not move
(4) X: things that make their own food, Y: things that cannot make their own food

24 Ben hung a string in a jar of sugar water. A sugar crystal formed on the string. Each day the crystal became bigger, as more sugar from the water stuck to it. Ben says, "The crystal is a living thing because it grows." Which is the BEST reply? ( ) [2]

1. Yes, because it becomes bigger each day.
2. Yes, because it needs water.
3. No, because it is too small to be living.
4. No. It gets bigger only when sugar is added from outside, and it cannot reproduce or respond to changes.

25 Aisyah wants to keep some mealworms for a week. Bran is food for mealworms. The slice of carrot gives them water. The four containers are kept in the same place. In each container the dotted layer is bran and the mound is a slice of carrot. Containers (1) and (3) have lids with small air holes (the gaps in the lid). Containers (2) and (4) have lids with no holes.
In which container can the mealworms survive? ( ) [2]



1. Diagram (1)
2. Diagram (2)
3. Diagram (3)
4. Diagram (4)