

Chapter 1

Our Environment

I. Choose the correct Answer:

Question 1.

Which of these is an example for biotic factor?

- (a) Water
- (b) Goat
- (c) Air

Answer:

- (b) Goat

Question 2.

Our environment is surrounded by _____.

- (a) biotic factors
- (b) abiotic factors
- (c) both biotic and abiotic factors

Answer:

- (c) both biotic and abiotic factors

Question 3.

Human beings depend on _____ for their food.

- (a) plants
- (b) soil
- (c) wood

Answer:

- (a) plants

Question 4.

_____ are the primary producers.

- (a) Non-green plants
- (b) Green plants
- (c) dry leaves

Answer:

- (b) Green plants

Question 5.

Which is an example for decomposer?

- (a) Mango tree
- (b) Bacteria
- (c) Deer

Answer:

(b) Bacteria

Question 6.

Which of these living things would die if there were no green plants on Earth?



(a) a and c only

(b) b and d only

(c) d and a only

(d) a, b, c and d

Answer:

(d) a, b, c and d

II. Fill in the blanks:

Question 1.

_____ is a consumer. (Cow / Soil)

Answer:

Cow

Question 2.

A young plant is known as _____. (tree / sapling)

Answer:

sapling

Question 3.

Planting of sapling provides _____. (oxygen / land)

Answer:

oxygen

Question 4.

World Environment day is _____. (June 15th / June 5th)

Answer:

June 5th

Question 5.

_____ get food from dead plants and animals. (decomposers / Producers)

Answer:

decomposers

III. Match the following:

1. Stone	a. Consumer
2. Bacteria	b. Abiotic factor
3. Plants	c. Decomposer
4. Buffalo	d. Producers

Answer:

1. Stone	a. Abiotic factor
2. Bacteria	b. Decomposer
3. Plants	c. Producers
4. Buffalo	d. Consumer

IV. Say true or false.

Question 1.

Abiotic factors are important for biotic factors.

Answer:

True

Question 2.

River is an example for biotic factor.

Answer:

False

Question 3.

'Van Mahotsav' is organised during the first week of July every year.

Answer:

True

Question 4.

Plants are the consumers.

Answer:

False

Question 5.

Plants provide food and shelter to living things.

Answer:

True

V. Answer the following.

Question 1.

Vijay placed two things 'p' and 'R' (one living and one non-living) in separate cages with food and water.

Number of weeks	Weight of 'P'	Weight of 'R'
Week 1	2 kg	1.5 kg
Week 2	4 kg	1.5 kg
Week 3	6 kg	1.5 kg
Week 4	8 kg	1.5 kg

a. Which thing is likely to be a living thing? Give reason for your **Answer**.

Answer:

Only living thing 'P' can gain weight after taking food and water. Other thing 'R' will not show any weight gain.

b. What will be the weight of living thing in week 6?

Answer:

12 kg

Question 2.

Write two examples for biotic and abiotic factors.

Answer:

Biotic	Abiotic
Lion	Water
Human being	Air

Question 3.

Write any three differences between living and non-living things.

Answer:

Biotic Factors (Living things)	Abiotic Factors (Non Living things)
They can breathe and grow	They cannot breathe and grow
They need food to live	They do not need food to live
They can feel	They cannot feel
They give birth to young ones	They do not give birth to young ones

Question 4.

List the abiotic factors needed for insects.

Answer:

Soil, Small Creatures, Air, Plants.

Question 5.

What are the biotic factors of a balanced ecosystem?

Answer:

The biotic factors in an ecosystem includes producers, consumers, and decomposers.

Question 6.

Why plants are called primary producers?

Answer:

Green plants make their own food by the process of photosynthesis. Hence, they are called primary producers.

Question 7.

Write any four benefits of plants.

Answer:

- (i) Provide oxygen for breathing.
- (ii) Provide food and shelter to living things.
- (iii) Help in bringing rainfall.
- (iv) Offer a good environment to live.

In-Text Activity:**Let us try (Text Book Page No. 58):****Question 1.**

Write the names of the animals that you see in the previous page picture.

Answer:

Parrot	Cow	Buffalo
Fish	Rabbit	Frog
Duck	Grasshopper	Honey Bee

Question 2.

Classify the following into natural things and man-made things.

(Dam, river, coconut tree, building, jasmine flower, hill, cloud, silver vessel, cell phone, temple, cake, air, sun, ship, water, pencil, book, doll, football, sunflower, crocodile, aeroplane)






Natural things	Man-made things

Answer:

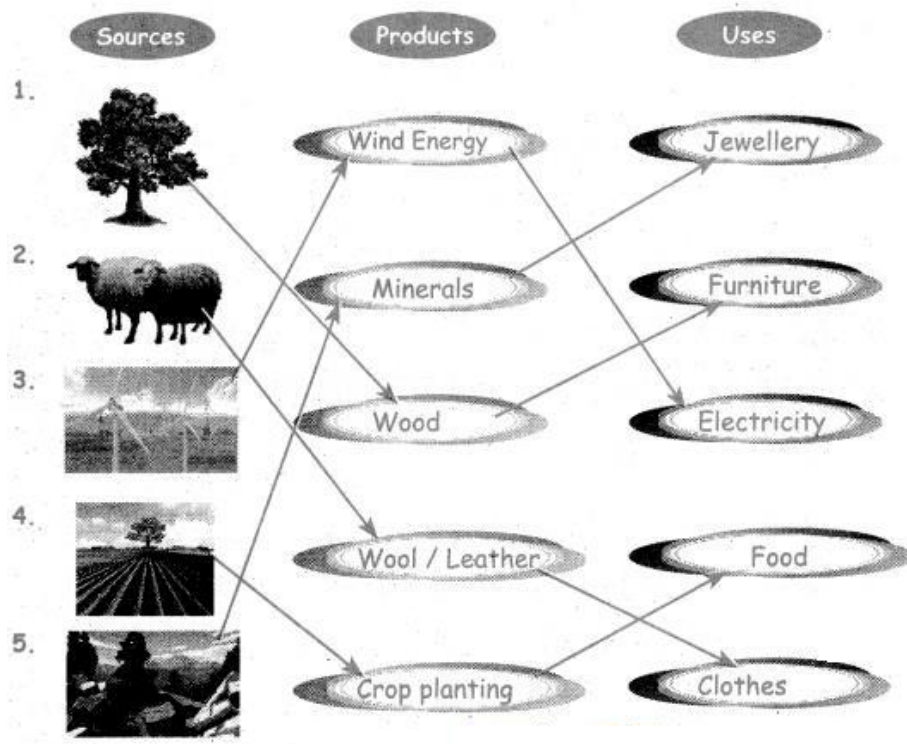
Natural things	Man-Made things
River, Jasmine flower, Hill, Cloud, Air, Sun, Water, Sun flower, Crocodile, Coconut tree.	Dam, Building, Silver Vessel, Cell Phone, Temple, Cake, Ship, Pencil, Book, Doll, Foot Ball, Aeroplane

Let us connect (Text Book Page No. 59):

Match the following sources with their products and uses.

	Sources	Products	Uses
1.		Wind Energy	Jewellery
2.		Minerals	Furniture
3.		Wood	Electricity
4.		Wool / Leather	Food
5.		Crop planting	Clothes

Answer:



Let us try (Text Book Page No. 61):

Question 1.

Classify the following as Biotic / Abiotic factors.

Factors	Biotic	Abiotic
Plants, Chair, Fish, Elephant, Washing machine, Peacock, Book, Glass, Chalk piece, Cat, Rain, Frog, Watch, Man, Pen, Lion, Water.		

Answer:

Factors	Biotic	Abiotic
Plants, Chair, Fish, Elephant, Washing machine, Peacock, Book, Glass, Chalk piece, Cat, Rain, Frog, watch, Man, Pen, Lion, water.	Plants	Chair
	Fish	washing Machine
	Elephant	Book
	Peacock	Glass
	Cat	Chalk Piece
	Frog	Rain
	Man	Watch
	Lion	Pen, Water

Question 2.

Think and answer (Text Book Page No. 61):



a. A swing goes to and fro. Is it living or non-living? _____

Answer:

non-living.

b. We get wood from trees which are the living things. A chair is made from wood. Is the chair a living thing or a non-living thing?

Answer:

non-living thing.

Try to Answer (Text Book Page No. 62):

Look at the picture and answer the question



Which of the non-living things can float?

- a. Iron rod
- b. Stone
- c. Air filled ball
- d. Coin

Answer:

c. Air filled ball

Let us try (Text Book Page No. 62):

The following statements describe some of the characteristics of living things. Identify and write the characteristic features using the given hints.

(Characteristics Hints: Move, Breathe, feel, Needs food, Grow, Reproduce)

Statements	Characteristics features
Touch-me-not plant closes its leaves when it is touched	
A papaya seed becomes a papaya tree	
A dove flies in the sky	
A cow eats grass	
A cat gives birth to kittens	
Human beings and animals breathe in and breathe out air	

Answer:

Statements	Characteristics features
Touch-me-not plant closes its leaves when it is touched	Feel
A papaya seed becomes a papaya tree	Grow
A dove flies in the sky	Moves
A cow eats grass	Needs food
A cat gives birth to kittens	Reproduce
Human beings and animals breathe in and breathe out air.	Breathe

Let us play (Text Book Page No. 62):

Divide the class into two groups and ask the first group to write any five biotic factors and the second group to write any five abiotic factors seen around the school.

Biotic factors	Abiotic factors

Answer:

Biotic factors	Abiotic factors
Cat	Black Board
Dog	Chalk piece
Man	Tiffen box
Lion	Pencil
Fish	Bag

Write the needs of the following (Text Book Page No. 63):

Question 1.

Birds : ____, ____, ____, ____

Answer:

air, water, sunlight, winds, trees.

Question 2.

Insects : ____, ____, ____, ____

Answer:

Soil, small creatures, plants, air.

Question 3.

Human beings : ____, ____, ____, ____

Answer:

Plants, water, air , animals, sunlight.

Let us discuss (Text Book Page No. 64):

Question 1.

There is a large banyan tree in a park. Monkeys and all birds have made the tree their home. Humans too spend time under the tree. Discuss with your friends, how the tree, monkeys, birds, and humans are interdependent.

Question 2.

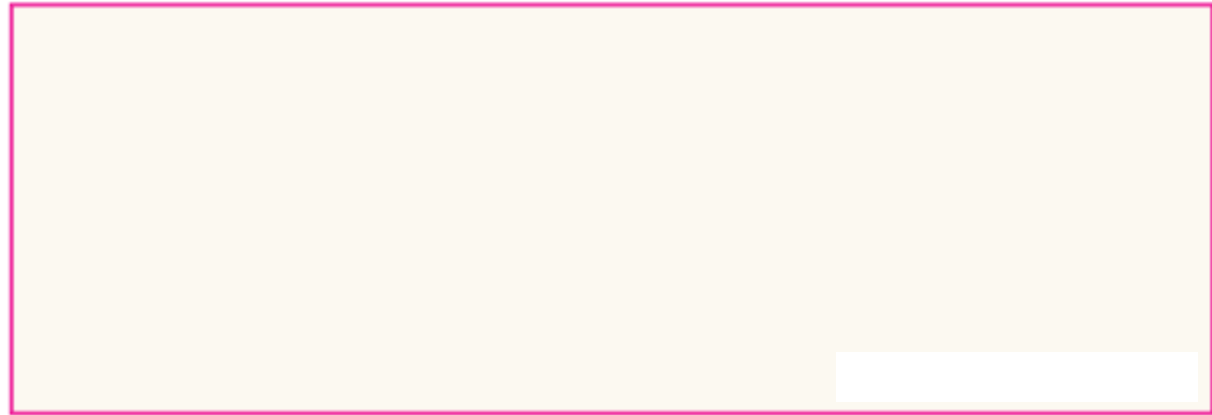
Why is the plant most important living thing?

Answer:

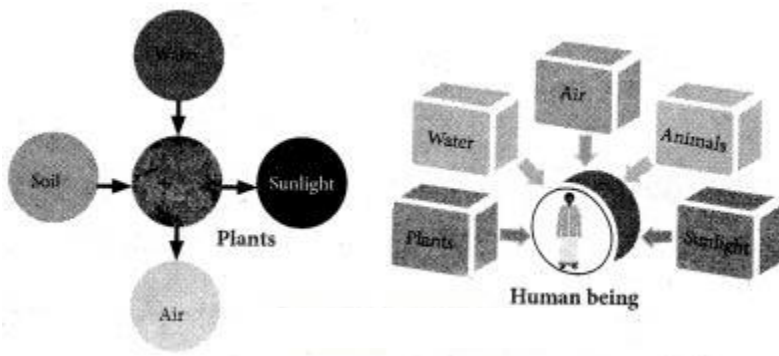
Monkeys and birds have made the tree their home. Humans too spend time under the tree.

Question 3.

Discuss in a group and create an interlink of living and non-living factors.



Answer:



Let us try (Text Book Page No. 64):

Question 1.

write the abiotic factors needed for the following biotic factors to survive.
(Air, Water, Sunlight, Soil, Land, Wheat, Fruits, Grass, Hen)

- a. Animals: _____
- b. Plants: _____
- c. Human beings: _____

Answer:

- a. Animals: Air, water, sunlight, grass
- b. Plants: Sunlight, water, air, soil
- c. Human beings: Sunlight, water, air, land, wheat, fruits, hen

Question 2.

An animal that,

- a. Flies in the air is : _____

Answer:

Butterfly

b. Lives in water is : _____

Answer:

Fish

c. Moves on the ground is : _____

Answer:

Snake

d. Eats only plants is : _____

Answer:

Herbivore

Intext Question:

Imagine an environment where there are only plants, deer, and lions.

Question 1.

What will happen to the deer, if we remove all the lions?

Answer:

If all the Lions are removed from the forest, then the number of secondary consumers will be increased and scarcity of plant (food) occur due to the overpopulation of deers and cause an imbalance in the ecosystem.

Question 2.

What will happen to the plants, if there are no lions to eat the deer?

Answer:

If all the deer are removed from the forest, other host unable to get food. Such as, lions unable to get sufficient food for being alive and as a result, the lion population gradually die due to starvation. This will affect the food chain and leads to an imbalance in ecosystem.

Question 3.

If all the plants are eaten, what will happen to the deer?

Answer:

Deers unable to get sufficient food for being alive, as a result deer population gradually die due to starvation.

Let us try (Text Book Page No. 66):

Classify the following biotic factors.

(Tulsi, Fungi, Mango tree, Rabbit, Eagle, Cat, Dog, Cucumber plant, Human, Grass, Crocodile, Crow, Bacteria)

Question 1.

Producers: _____, _____, _____, _____, _____

Answer:

Mango tree, Tulsi, Cucumber, Plant, Grass.

Question 2.

Consumers: _____, _____, _____, _____, _____

Answer:

Eagle, Human, Crocodile, Crow, Rabbit, Cat, Dog.

Question 3.

Decomposers: _____, _____, _____, _____, _____

Answer:

Fungi, Bacteria.

Let us discuss (Text Book Page No. 66):

Question 1.

Let us discuss and write.

Plants and human beings are living things. Why do human beings depend on plants?

Answer:

Human beings depend on plants for their food, clothing, breathing, medicines, etc.

Let us try (Text Book Page No. 66):

The names of several natural resources are hidden in the box below! find as many as possible. Some words are repeated.

O	R	X	S	E	P	L	A	N	T
A	T	Y	E	N	O	U	F	C	S
N	R	Z	A	U	N	L	A	K	E
I	E	S	N	L	D	E	S	E	A
M	E	P	M	L	T	W	U	S	J
A	R	E	T	A	W	Z	N	B	H
L	Q	M	B	N	W	A	T	E	R
E	E	R	T	D	I	Y	E	L	X

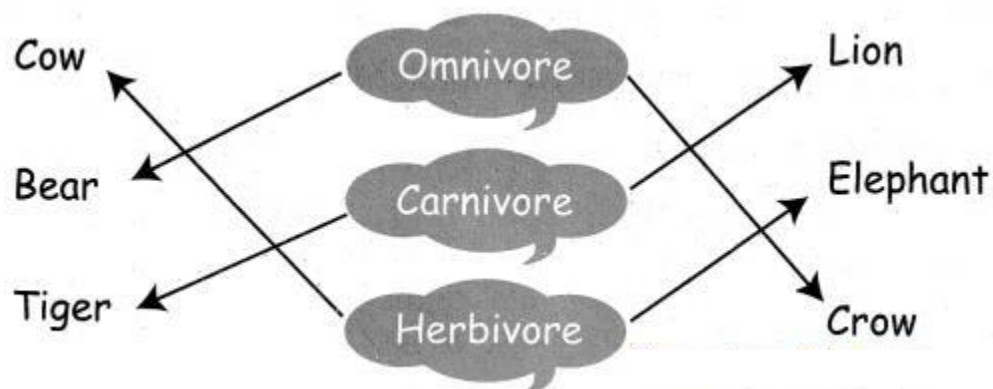
Answer:

O	R	X	S	E	P	L	A	N	T
A	T	Y	E	N	O	U	F	C	S
N	R	Z	A	U	N	L	A	K	E
I	E	S	N	L	D	E	S	E	A
M	E	P	M	L	T	W	U	S	J
A	R	E	T	A	W	Z	N	B	H
L	Q	M	B	N	W	A	T	E	R
E	E	R	T	D	I	Y	E	L	X

Let us connect (Text Book Page No. 67):



Answer:



Let us do (Text Book Page No. 67):

A. Write any two uses of trees.

Answer:

1. Trees provide shade and shelter
2. Trees clean the air.

E. Write some slogans on 5ave Plants and paste them on the tree in your school campus/roadsides. (E.g., Take care of the Earth and it will take care of you. It's not yours, nor mine, it's ours).

Answer:

1. It is time for greeny and not greedy.
2. Love your life & plant more trees.