1. Answer the following questions.

1. Define air pollution.

Ans. The presence of harmful gases, dust, smoke or chemicals in the air is called air pollution.

2. Define biodegradable material?

Ans. Biodegradable materials are the things that can decompose naturally. For example, vegetables, fruits etc.

3. Which disease are caused by drinking contaminated/ polluted water?

Ans. It can spread infectious diseases, such as cholera and typhoid fever.

4. Define the term environment.

Ans. An environment is sum of all the living and non-living things that surround us.

5. Define the term pollution.

Ans. Pollution is an undesirable or unwanted change in the environment that is harmful to humans and other living things.

2. Tick the right option.

1. Which of the following is biodegradable?

(a) a plastic bottle   (b) a pen   (c) a potato peel   (d) an elastic band

2. What does it mean if something is non-biodegradable?

(a) it will decompose   (b) it will not decompose   (c) it is good for the environment   (d) it will not cause pollution

3. Which of the following causes air pollution?

(a) burning coal   (b) smoke   (c) exhaust fumes   (d) all of them
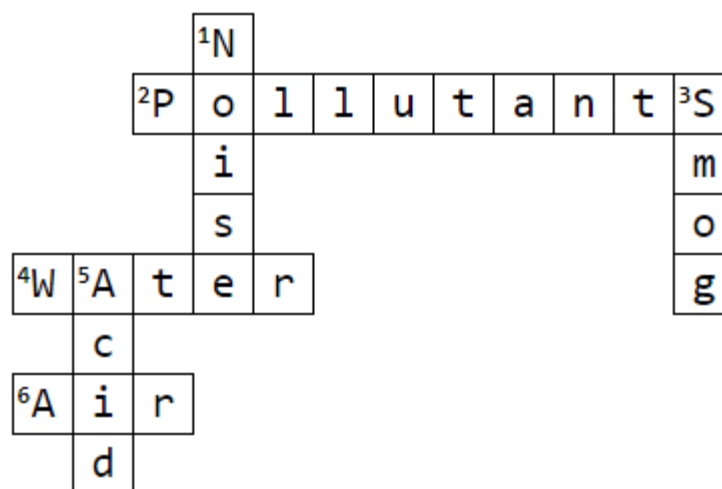
4. Which of the following causes water pollution?

(a) burning fossil fuels   (b) throwing rubbish in water   (c) using toxic chemicals on plants   (d) all of the above

5. Which of the following is not one of the three Rs?

(a) reduce   (b) reap   (c) recycle   (d) reuse

3. Crosswords

			¹N							
		²P	o	l	l	u	t	a	n	t	³S
			i								m
			s								o
⁴W	⁵A	t	e	r							g
	c				
⁶A	i	r	

Across

2. They causes pollution
4. _____ is a universal solvent
6. _____ is a mixture of gases.

Down

1. It causes sleeping disorders.
3. It causes difficulty in vision.
5. _____rain can damage buildings

4. Words Search

Find the following word in the words search.

| Atmosphere | Hydrocarbon | Methane | Sulphur | Poisonous |

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

5. Jumbled Words

i.   MENTENVIRON   ENVIRONMENT   i.   CEMICHAL   CHEMICAL

ii. LLOPUTION   POLLUTION   ii. HERICIBED   HERBICIDE

iii. FORESTDEATION   DEFORESTATION   iii. DIAHRREA   DIARRHEA

iv. DEGRADBIOABLE   BIODEGRADABLE   iv. PTOLLUSANT   POLLUTANTS

v.   HOUGRSEEEN   GREENHOUSE   v.   FOSETR   FOREST

6. Columns

Match the column A with column B.

Column A   **Column B**

Carbon dioxide and methane

Reduces visibility   Smog

Coal, petrol and diesel   Fossil fuels

Related to water   Aquatic

Plastic and metal cans   Non-biodegradable

                                                    Greenhouse gases
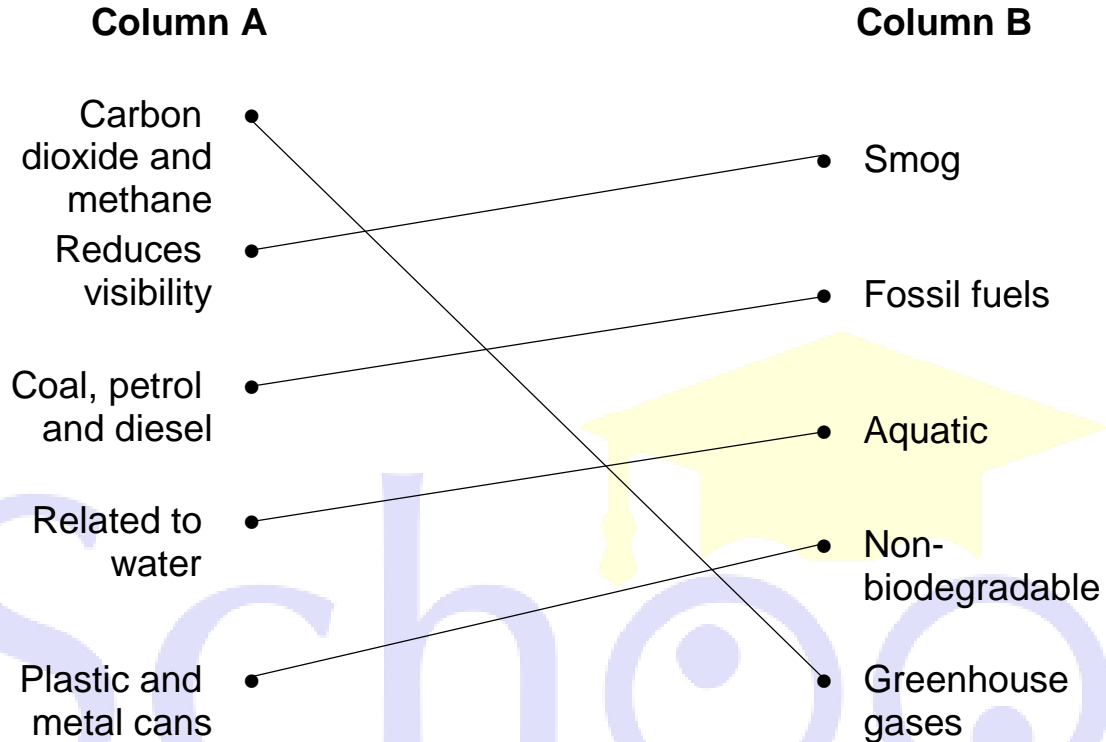
7. Fill in the blanks using the given words.

Recycle	asthma	ultraviolet	essential	land

i.   The waste material causes **land** pollution.

ii. Polluted air may cause disease like **asthma**.

iii. Water is **essential** for all living things.

iv. **Recycle** means using old items to make something new.

v.   Ozone layer protects us from **ultraviolet** radiations.

8. Write "T" for the true and "F" for the false statement.

i. Material which decompose naturally are known as biodegradable.	T
ii. Oil-spills and leaks in the ocean cause air pollution.	F
iii. Glass and metal are two examples of biodegradable materials.	F
iv. Land pollution does not have any effect on plant and animal life.	F
v. The ozone layer of the atmosphere protects the earth from the harmful rays of the sun.	T
vi. Half of the earth is covered by water.	F
vii. Water pollution may cause infectious diseases like cholera and typhoid	T
viii. Paper is an example of non-biodegradable material.	F
ix. Gold is an example of biodegradable material.	F
x. Some natural disasters, like floods and landslides, are a result of environmental pollution.	T

9. Label the diagram.

Pollution
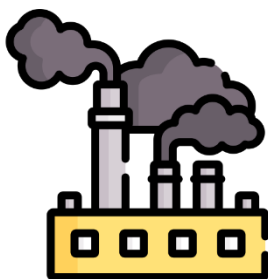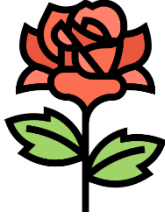
Air pollution   Water pollution   Noise pollution

10.   Drag and Drop

Look at the pictures and write their names in the relevant column.

Marbles	**Milk bottle**	**Carrot**	**Rat**	**Flower**
Peel of banana	**Glasses**	**Plastic ball**	**Plastic chappal**	**Leaves**

Biodegradable	**Non-biodegradable**
Carrot	Marbles
Rat	Milk bottle
Flower	Glasses
Peel of banana	Plastic bottle
Leaves	Plastic chappal

11. Comprehension

Pollution is a problem that affects many plants and animals. Pollution is harmful for plants or poisonous to plants and animals.

Pollution can occur naturally or be man-made. Natural pollution includes sandstorms, volcanic eruptions and wildfires. Man-made pollution, such as from factories, cars and sewage is caused by people.

There are three basic types of pollution. Pollution can affect water, air and land so these are water pollution, air pollution and land pollution.

i.   Which organisms are affected by pollution?

Ans: Pollution is a problem that affects many plants and animals.

ii.   How pollution can occur?
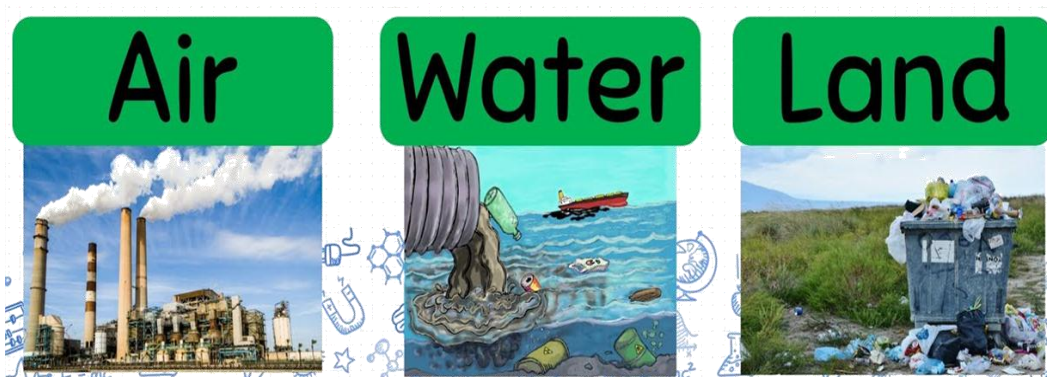
Ans: Pollution can occur naturally or be man-made.

iii.   What are the three basic types of pollution?

Ans: The three basic types of pollution are:
- Water pollution
- Air pollution
- Land pollution

12.   Complete the following table.

Types of pollution	Causes	Effects	Ways to reduce
Land	• Chemical waste produced by factories, human sewage.	• It damages soil and entire ecosystem.	• Use 3R strategy to reduce Pollution.
Air	• Burning of Fossil Fuels. • Open Burning of Waste.	• Heart diseases • Lung cancer • Respiratory diseases such as emphysema.	• Use public transport. • Use ecofriendly fuels in factories and vehicles.
Water	• Improper Sewage Disposal. • Fertilizers Run-Off. • Oil spill.	It can spread infectious diseases, such as: • Cholera • Typhoid fever.	• Dispose of Medical Waste Properly. • Dispose of Toxic Chemicals Properly

13.   Answer the following question in detail.

Explain 3R strategy to reduce pollution due to non-biodegradable materials.

Ans. We can keep our environment clean by reducing, reusing and recycling things. Remember the three Rs.

- **Reduce:**

Reduce the amount of waste you produce

- **Reuse:**

Reuse the items instead of throwing them away whenever possible. For example, empty bottles of jam can be reused to store things in the kitchen.

- **Recycle:**

Recycling is the process of making new things from old ones.