

Air Around Us

ORAL QUESTIONS

A. Answer these questions orally.

1. Can you see air?
2. State any one instance where you can feel the presence of air.
3. Our earth is surrounded by a thin layer of air. What is this thin layer of air called?
4. Is air a pure substance or a mixture of gases?
5. Which two gases make about 99 % of air?
6. Is the percentage of water vapour fixed in the air?
7. What is the percentage of nitrogen gas present in the air?
8. What is the percentage of oxygen gas present in the air?
9. What is the percentage of noble gases present in the air?
10. What is the percentage of carbon dioxide gas present in the air?

PUZZLE/QUIZ

B. Find at least eight terms you have read in this chapter. Write a few lines about each of them.

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

CLASS TEST

C. MCQ–Tick (✓) the correct option.

1. Which of the following statements is incorrect?
 - (a) Air is present all around us
 - (b) Air is a mixture of many gases
 - (c) Moving air is called atmosphere
 - (d) Coastal areas have greater percentage of water vapour
2. The percentage of which gas found in air is incorrect?
 - (a) Oxygen—21%
 - (b) Nitrogen—87%
 - (c) Noble Gas—0.95%
 - (d) Carbon dioxide—0.03%
3. Which two main processes maintain the balance of carbon dioxide and oxygen in the atmosphere?
 - (a) Photosynthesis and burning
 - (b) Burning and respiration
 - (c) Respiration and photosynthesis
 - (d) None of these

4. Which gas present in air is used by plants for making food through photosynthesis?
- (a) Oxygen (b) Carbon dioxide
(c) Nitrogen (d) Noble gases
5. Which gas is released by green plants during the process of making their food?
- (a) Oxygen (b) Carbon dioxide
(c) Nitrogen (d) Noble gases
6. Which gas(es) present in the air does not support burning?
- (a) Oxygen (b) Nitrogen
(c) Carbon dioxide (d) Nitrogen and carbon dioxide
7. Which of these gases is present in least quantity in air?
- (a) Oxygen (b) Carbon dioxide
(c) Nitrogen (d) None of these

D. Very short answer questions.

1. Name the most abundant gas found in the air.
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2. Name the gas used by plants and animals living in water for respiration.
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3. Sometimes tiny particles are seen floating in sunlight when sunlight is allowed to enter a dark room through a slit. What are these shiny particles?
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E. Short answer questions.

1. Name the various gases present in air. What is their percentage?
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2. What are the uses of nitrogen gas?
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3. What are the uses of oxygen gas?

4. What is the importance of carbon dioxide gas?

5. What is photosynthesis?

6. Does soil contain air? How is it useful?

7. Why are earthworms called friends of farmers?

8. What happens to the oxygen gas taken up by all living organisms?

9. Give any three uses of air.

F. Long answer type questions.

1. How is oxygen in air replaced?

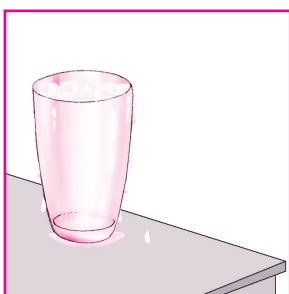
2. What are the uses of air? List atleast six uses of air.

3. How can we say that air is essential for our survival?

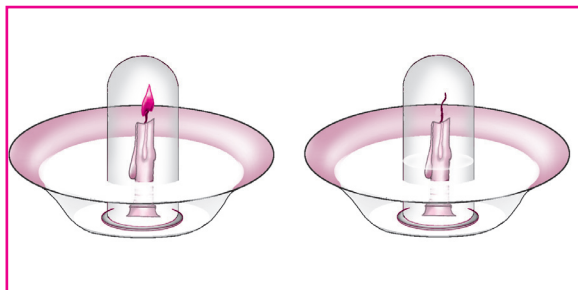
HOME ASSIGNMENT

G. Think and answer.

1. Look at the figure shown below. Why are tiny water droplets seen on the outer surface of a glass containing ice cubes?



2. Look at the figures shown below. Why does the burning candle get extinguished after sometime?



3. Why are bubbles seen on the inner surface of the beaker when we heat water in it?

WORKSHEET

H. Give reasons for the following.

1. We are advised to breathe from our nose and not from our mouth.

2. Earthworms are called friends of farmers.

3. Mountaineers carry oxygen cylinders with them while climbing high mountains.
