

## Science

## Air

1. Circle the correct answer.

i) Which one of the following gases is used in a **fire extinguisher**?

- A Oxygen.
- B Carbon dioxide.
- C Water vapour.
- D Nitrogen.

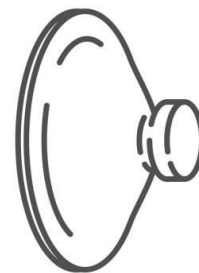


ii) What is the percentage of **oxygen** gas in the atmosphere?

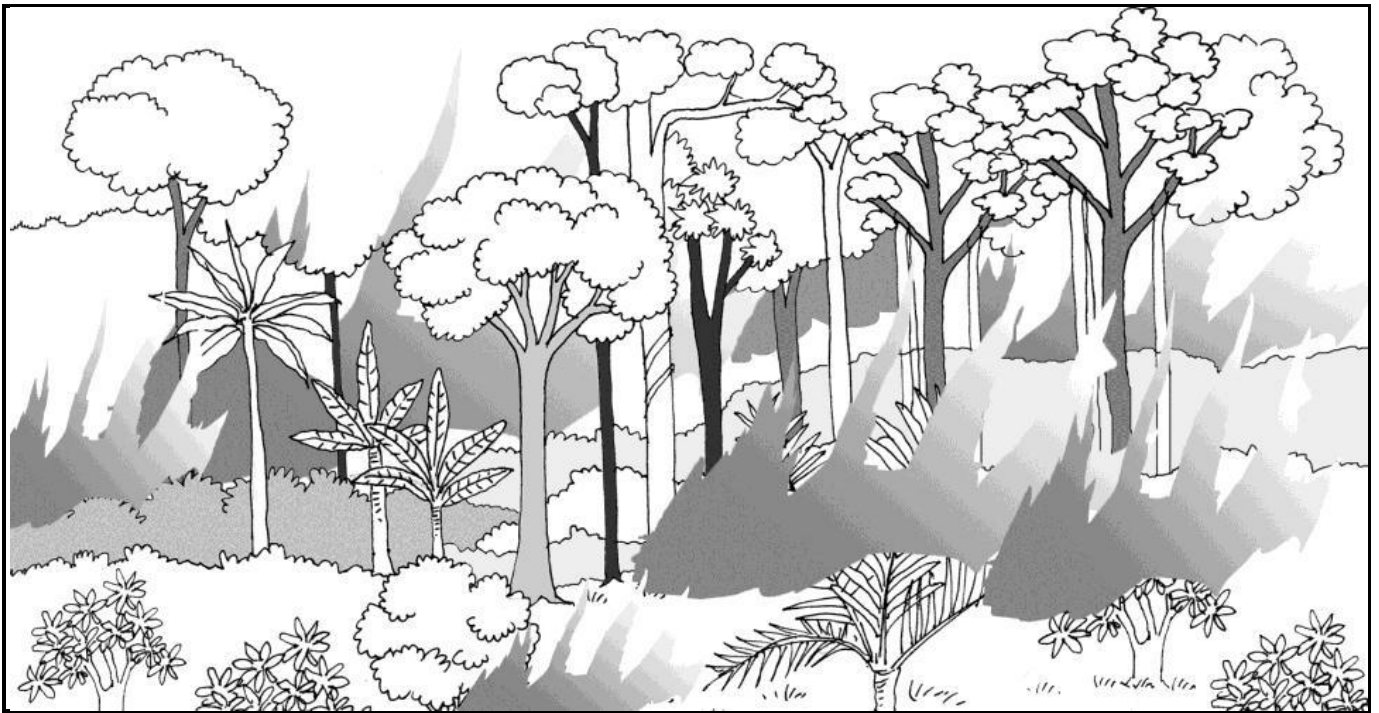
- A 0.01%
- B 0.03%
- C 21.0%
- D 78.1%

iii) A **suction cup** gets stuck to a window pane when pressed because of

- A water.
- B glue.
- C a push.
- D difference in air pressure.



2. The diagram below shows a forest on fire.



i) Which gas is necessary for burning?

*Oxygen is necessary for burning.*.....

ii) Which gas is produced when the fire is burning?

*Carbon dioxide is produced when the fire is burning.*.....

iii) What can be done to extinguish this fire?

*Remove the fuel by cutting down the trees will prevent the fire from spreading.*

*(In some countries, special planes take water from nearby rivers/lakes and pour it on forest fires to extinguish them.)*

3.



(a) Complete the sentences by using the following words:

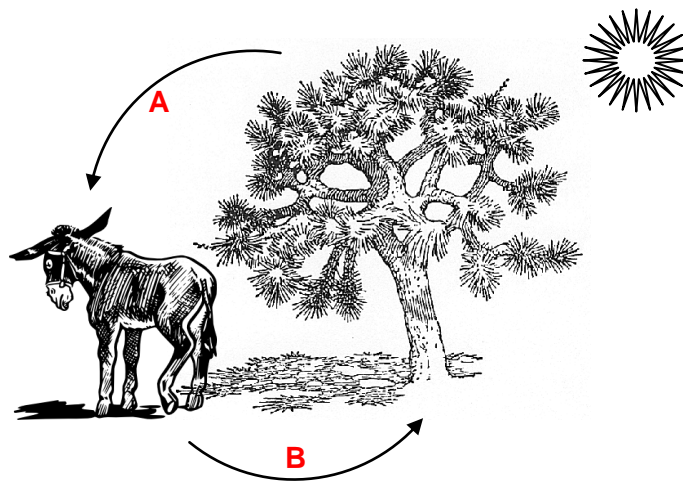
air pressure, harder, outside, inside, everywhere, gases

- i) Air is a mixture of gases.
- ii) Air is present everywhere on planet Earth.
- iii) The balloon becomes harder as the boy continues blowing air inside it.
- iv) The push of air inside the balloon is known as air pressure.
- v) The balloon finally bursts because the air pressure inside the balloon is greater than the air pressure outside the balloon.

(b) Give one use of air pressure.

To inflate tyres. / To draw liquid into a syringe. / To drink juice using a drinking straw ...

4. The figure shows the oxygen and carbon dioxide cycle.



a) Label **A**: Oxygen.....

**B**: Carbon dioxide.....

b) Which **gas** is taken in by all living things?

Oxygen.....

c) (i) Why do plants need **gas B**?

In presence of sunlight, plants take in carbon dioxide (gas B) from the air, and water from the soil, to make their food.

(ii) Explain why the oxygen and carbon dioxide cycle is essential for life.

The oxygen and carbon dioxide cycle is essential for life because it maintains the composition of the air constant.