

Test / Exam Name: Air Around Us

Standard: 6th

Subject: Science

Student Name:

Section:

Roll No.:

Questions: 29 Time: 01:00 hh:mm Marks: 40

Instructions

1. New Section on new page
2. Make sure to write in good handwriting
3. Read the questions properly.

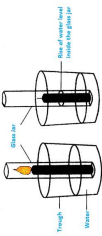
Q1. What is the percentage of carbon dioxide present in air?

- A 0.3% B 0.03% C 0.003% D 1%

1 Mark

Q2. In the given figure, a burning candle is kept in the trough containing water. It is put off after some time when covered by an inverted gas jar.

1 Mark



What can be concluded from the above activity?

- A Oxygen is 1/5th the volume of air.
 B The ratio of oxygen and nitrogen in air is 1 : 4.
 C Oxygen is required for burning the candle.
 D All of the above

1 Mark

Q3. The ratio of nitrogen to oxygen in the air is

- A 1 : 4 B 4 : 1 C 3 : 1 D 1 : 2

1 Mark

Q4. Which of the following is a variable component of air?

- A Water vapour B Nitrogen C Oxygen D Carbon dioxide

1 Mark

Q5. The percentage amount of which of these gases in the air is the least?

- A Oxygen.
 B Nitrogen.
 C Carbon dioxide.
 D Cannot say because it varies from place to place.

1 Mark

Q6. Why do the earthworms come out of soil during heavy rains?

- A They come out of soil so as to stay at some dry place.
 B They come out of soil for respiration.
 C They come out to see the nature when it is raining heavily.
 D None of the above.

1 Mark

Q7. Nitrogen is used:

- A In preserving tinned foods
 B All are correct
 C As a refrigerant
 D In electric bulbs

1 Mark

Q8. This is a wind mill. It uses air for:



- A Making it move and thus it is able to generate electricity.
 B Making it move to show signals.
 C Making it move to slow down vehicles.
 D Making it move to show the direction of the wind.

1 Mark

Q9. Why are chimneys provided in factories?

- A So as to locate the factories easily.
 B To take the harmful smoke and gases away from us.
 C To absorb the dust particles present in smoke before being released to the atmosphere.
 D All of the above.

Q10. Which of the following statements is true regarding the properties of air?

- A Air is a good conductor of electricity.
 B Air is a good conductor of heat.
 C Air is translucent in nature.
 D The composition of air varies from place to place.

1 Mark

Q11. This is used as a fuel in rockets for combustion of fuels.

- A Hydrogen B Nitrogen C Liquid oxygen D Carbon dioxide

1 Mark

Q12. Nitrogen supports burning of a candle. True/ False.

Q13. Air becomes thinner and thinner as we go higher and higher from the surface of earth. True/ False

Q14. Air is a compound and not an element. True/ False

Q15. Fill in the blanks with the appropriate Words:
 Air is really not one substance but a _____.

Q16. Air is the _____ of gases.

1 Mark

Q17. How does oxygen occur in nature?

1 Mark

Q18. How can you show that air is dissolved in water?

1 Mark

Q19. Why does a lump of cotton wool shrink in water?

1 Mark

Q20. Name the substances which are present in traces in air. What are these together called?

1 Mark

Q21. Describe the composition of air.

1 Mark

SECTION-B

Q22. Air is necessary for combustion. Explain the statement.

2 Marks

Q23. How do plants and animals help each other in the exchange of gases in the atmosphere?

2 Marks

Q24. What is the importance of oxygen in daily life?

2 Marks

Q25. Why all the oxygen of atmosphere does not get used up though a large number of organisms are consuming it?

2 Marks

Q26. What is the importance of the presence of carbon dioxide in the atmosphere? What will happen if its concentration in the air increases?

2 Marks

SECTION-C

Q27. Study the figures given below and answer the questions that follow.

3 Marks



1. Why does air enter in (ii)?
2. Why does the candle get extinguished when covered with a glass jar?
3. When the candle gets extinguished, why does the level of water rise in the inverted jar (ii)?

3 Marks

Q28. Write just a few sentences for an imaginary situation if any of the following gases disappear from the atmosphere.

1. Oxygen.
2. Nitrogen.
3. Carbon dioxide.

3 Marks

Q29. A list of words is given in a box. Use appropriate words to fill up the blanks in the following statements

Air, oxygen, wind, water vapour, mixture, combination, direction, road, bottles, cylinders.

1. The _____ makes the windmill rotate.
2. Air is a _____ of some gases.
3. A weather cock shows the _____ in which the air is moving at that place.
4. Mountaineers carry oxygen _____ with them, while climbing high mountains.