

Name:

Date:

- 01.** The nitrogen content in air is
(a). 78% (b). 88% (c). 68% (d). 21%
- 02.** The presence of air around can be proved by
(a). Seeing it (b). Smelling it (c). Its colour (d). Feeling it when moves.
- 03.** The active part of air is
(a). Carbon dioxide (b). Oxygen (c). Carbon monoxide (d). Rare gases
- 04.** A gas used for welding purpose is
(a). Oxygen (b). Nitrogen (c). Carbon dioxide (d). None of these
- 05.** This is used as a fuel in rockets for combustion of fuels
(a). Carbon dioxide (b). Liquid oxygen (c). Nitrogen (d). Hydrogen
- 06.** Which gas is produced on burning of fossil fuels
(a). Oxygen (b). Nitrogen (c). Carbon dioxide (d). Sulphur dioxide
- 07.** Which of these applies to nitrogen?
(a). It helps in respiration (b). It help in photosynthesis
(c). It is 78% by volume (d). It help in burning
- 08.** Moisture in air is called
(a). Humidity (b). Water vapour (c). Atmosphere (d). Respiration
- 09.** Oxygen is used in hospitals for
(a). Burning wastage (b). Artificial respiration (c). Fermentation (d). Decomposition
- 10.** Which of the following gas is found in largest quantity in air?
(a). Oxygen (b). Carbon dioxide (c). Nitrogen (d). Argon
- 11.** Animals living in water have ----- for respiration.
(a). Lungs (b). Gills (c). Spiracles (d). Skin
- 12.** The components of air which are harmful to living beings are
(a). Nitrogen and carbon dioxide (b). Dust and water vapour
(c). Dust and smoke (d). Smoke and water vapour

Q01. Match the following

(A). Column A

- (a). Wind
- (b). Atmosphere
- (c). Humidity
- (d). Pollution
- (e). Fermentation

Column B

- i. Decomposition of vegetable matter.
- ii. Moisture in air.
- iii. Envelop of air surrounding earth.
- iv. Moving air.
- v. Presence of harmful particles in air.

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(B). Column A

- (a). Production of electricity
- (b). Gas liberated during photosynthesis
- (c). Lowermost layer of atmosphere
- (d). The process in which oxygen is breathed in
- (e). Air exerts

Column B

- i. Troposphere
- ii. Wind mill
- iii. Oxygen
- iv. Pressure
- v. Respiration

(C). Column A

- (a). Oxygen
- (b). Nitrogen
- (c). Carbon dioxide
- (d). Argon
- (e). Neon

Column B

- i. 78%
- ii. 21%
- iii. 0.018%
- iv. 0.02-0.04%
- v. 0.93%

Q02. Fill in the blanks.

- (a). The percentage of carbon dioxide in the air is -----.
- (b). Dissolved oxygen in water is the life-saver of ----- animals.
- (c). The gaseous envelop surrounding the surface of the earth is called -----.
- (d). Increased humidity means increased presence of ----- in the air.
- (e). ----- air contains no water vapour.
- (f). Food is prepared by plants by the process of -----.
- (g). Lowermost layer of atmosphere is called -----.
- (h). We can not see air, but we can ----- it.
- (i). Plants and animals are -----.

Q03. Write T for true and F for false statements.

- (a). Air is compound.
- (b). Air exerts pressure.
- (c). Respiration uses up carbon dioxide and release energy from food.
- (d). 1/5th of the volume of air is Oxygen.
- (e). Moving air is called wind.

Q04. What happen when water vapour in the air comes in contact with a cool surface?

Q05. Define atmosphere? Write its importance for us?

Q06. Where do aquatic animals get oxygen from?

Q07. Write four uses of air?

Q08. Why does the policeman on the traffic crossing wear a mask?

Q09. What are windmills used for?

Q10. Write three activities in which carbon dioxide gas is produced?

Q11. Mention the main constituents of air.

Q12. Why do mountaineers, sea-divers and astronauts carry oxygen cylinders with them?

Q13. Define humidity? On what factors it depends?

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- Q14.** Why do animals living in the soil come out of the soil when it rains heavily?
- Q15.** In a number of musical instruments, air plays an important role. Can you name some such instruments?
- Q16.** On a Sunday morning Paheli's friend visited her home. She wanted to see some flowering plants in the nearby garden. Both of them went to the garden. While returning from the garden they also observed some flowering plants on the road side. But to their surprise they found that the leaves and flowers of these roadside plants were comparatively very dull. Can you help them to know why?
- Q17.** Make sentences using the given set of words.
(a). 99%, oxygen, nitrogen, air, together
(b). Respiration, dissolved, animals, air, aquatic
(c). Air, wind, motion, called
- Q18.** 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.
(a). The _____ makes the windmill rotate.
(b). Air is a _____ of some gases.
(c). A weather cock shows the _____ in which the air is moving at that place.
(d). Mountaineers carry oxygen _____ with them, while climbing high mountains.
- Q19.** Observe the picture given in Fig. 15.1 carefully and answer the following questions.
(a). What is covering the nose and mouth of the police man?
(b). Why is he putting a cover on his nose?
(c). Can you comment on air quality of the place shown in the Fig.15.1?
- Q20.** Garima observed that when she left her tightly capped bottle full of water in the open sunlight, tiny bubbles were formed all around inside the bottle. Help Garima to know why it so happened?
- Q21.** Explain the following observations very briefly
(a). A firki does not rotate in a closed area.
(b). The arrow of weather cock points towards a particular direction at a particular moment.
(c). An empty glass in fact is not empty.
(d). Breathing through mouth may harm you.
- Q22.** Write just a few sentences for an imaginary situation if any of the following gases disappear from the atmosphere
(a). oxygen (b). nitrogen (c). carbon dioxide
- Q23.** Paheli kept some water in a beaker for heating. She observed that tiny bubbles appeared before the water started to boil. She boiled the water for about 5 minutes and filled it in a bottle up to the brim and kept the bottle air tight till it cooled down to room temperature.
(a). Why did the tiny bubbles appear?
(b). Do you think tiny bubbles will appear on heating the water taken out from the bottle? Justify your answer.
- Q17.** On a Sunday morning Paheli's friend visited her home. She wanted to see some flowering plants in the nearby garden. Both of them went to the garden. While returning from the garden they also observed some flowering plants on the road side. But to their surprise they found that the leaves and flowers of these roadside plants were comparatively very dull. Can you help them to know why?