

Class: VI
Subject: Biology
Topic: Air Around us
No. of Questions: 25

Q1. Oxygen is used in hospitals for

- A. Burning wastage
- B. Artificial respiration
- C. Fermentation
- D. Decomposition

Sol: b

Q2. Which of the following gas is found in largest quantity in air?

- A. Oxygen
- B. Carbon dioxide
- C. Nitrogen
- D. Argon

Sol: c

Q3. Animals living in water have _____ for respiration.

- A. Lungs
- B. Gills
- C. Spiracles
- D. Skin

Sol: b

Q4. 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

Sol: c

Q5. The nitrogen content in air is

- A. 78%
- B. 88%
- C. 68%
- D. 21%

Sol: a

Q6 the presence of air around can be proved by

- A. Seeing it
- B. Smelling it
- C. Its colour
- D. Feeling it when moves.

Sol: d

Q7. The active part of air is

- A. Carbon dioxide
- B. Oxygen
- C. Carbon monoxide
- D. Rare gases

Sol: b

Q8. Match the following

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%

Sol: (a) – (ii) (b) – (i) (c) – (iv) (d) – (v) (e) – (iii).

Q9. Fill the blanks with suitable word.

- A. Food is prepared by plants by the process of _____.
- B. Lowermost layer of atmosphere is called _____.
- C. We can not see air, but we can _____ it.
- D. Plants and animals are _____.
- E. Air is a _____.

Sol: (a) photosynthesis (b) troposphere (c) feel (d) interdependent (e) mixture.

Q10. Why do mountaineers, sea-divers and astronauts carry oxygen cylinders with them?

Sol: At high altitude concentration of gases decreases so less oxygen is available for breathing similarly under the sea water, dissolved oxygen is very less. So, they need oxygen cylinder for breathing properly.

Q11. Define humidity? On what factors it depends?

Sol: moisture in air is called humidity. The content of water vapour in air depends on location and temperature. During rainy seasons humidity is very high.

Q12. Why do animals living in the soil come out of the soil when it rains heavily?

Sol: when rain water fills the burrows of soil animals, they are not able to breathe properly. So during rainy season animals living in soil come out.

Q13. Arrange the jumbled words.

- A. DILLMWIN
- B. TUDS
- C. YNOGXE
- D. MOSPHATRE

Sol: A. WINDMILL
B. DUST
C. OXYGEN
D. ATMOSPHERE.

Q14. Match the following

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

Sol: (a) – (ii), (b) – (iii), (c) – (i), (d) – (v), (e) – (iv).

Q15. 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. $1/5^{\text{th}}$ of the volume of air is Oxygen.
- E. Moving air is called wind.

Sol: (a) F (b) T (c) F (d) T (e) T.

Q16. Why does the policeman on the traffic crossing wear a mask?

Sol: At crossing over large number of vehicle crosses. These vehicle release poisonous gases dust particles. Policeman uses mask to prevent themselves form these harmful substances.

Q17. What are windmills used for?

Sol: windmill is device that converts wind energy into electrical energy. It is an alternate source of energy. It does not cause any pollution also.

Q18. Write three activities in which carbon dioxide gas is produced?

Sol: Carbon dioxide is formed during

- A. Combustion of fossil fuels.
- B. Respiration
- C. Fermentation and decomposition.

Q19. Mention the main constituents of air.

Sol: main constituents of air are

- A. Nitrogen
- B. Oxygen
- C. Argon
- D. Carbon dioxide gas
- E. Water vapour and dust particles.

Q20. Match the following

Column A

Column B

- | | |
|-----------------|--|
| A. Wind | i. decomposition of vegetable matter. |
| B. Atmosphere | ii. Moisture in air. |
| C. Atmosphere | iii. Envelop of air surrounding earth. |
| D. Humidity | iv. Moving air. |
| E. Fermentation | v. presence of harmful particles in air. |

Sol: (a) – (iv), (b) – (iii), (c) – (ii), (d) – (v), (e) – (i).

Q21. 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.

Sol: (a) 0.20-0.04 % (b) aquatic (c) atmosphere (d) water vapour (e) Dry.

Q22. What happen when water vapour in the air comes in contact with a cool surface?

Sol: when water vapour comes in contact with a cool surface it condenses into water droplets. Presence of water on glass containing ice cold water is due to this condensation.

Q23. Define atmosphere? Write its importance for us?

Sol: Atmosphere is the thick layer of air surrounding the earth. It contains various gases, dust particles and water vapour. It protects us from harmful ultraviolet rays and oxygen present in it is essential for respiration.

Q24. Where do aquatic animals get oxygen from?

Sol: Aquatic organisms have gills for respiration. They obtain oxygen from the water. Small amount of dissolved oxygen is present in the water, which is used by water living organisms.

Q25. Write four uses of air?

Sol: Uses of water:

- A. Oxygen present in air used for breathing.
- B. Birds, bats and insects fly in air.
- C. Air used for winnowing
- D. The windmills are run with help of air.

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