



# BIOLOGY

## BOOKS - SURA BIOLOGY (TAMIL ENGLISH)

### AIR

#### Example

1. \_\_\_ is the percentage of nitrogen in air

A. 0.78

B. 0.21

C. 0.0003

D. 0.01

**Answer:**



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2. Gas exchange takes place in plants using\_\_\_\_\_.

A. Stomata

B. Chlorophyll

C. Leaves

D. Flowers

**Answer:**



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**3.** The constituent of air that supports combustion is \_\_\_\_.

A. Nitrogen

B. carbon-di-oxide

C. Oxygen

D. water vapour

**Answer:**



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4. Nitrogen is used in the food packaging industry because it \_\_\_\_.

A. provides colour to the food

B. provides oxygen to the food

C. adds proteins and minerals to the food

D. keeps the food fresh

**Answer:**



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5. \_\_\_ and \_\_\_ are the two gases ,which when taken together,make up about 99percentage of air.

A. Nitrogen

B. carbon-di-oxide

C. Noble gases

D. Oxygen

**Answer:**



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6. \_\_\_\_ is the active component of air.



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7. The gas given out during photosynthesis is \_\_\_\_.



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8. \_\_\_gas is given to the patients having breathing problems.



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9. \_\_\_ can be seen moving in a beam of sunlight in a dark room.



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10. Which gas turns lime water milky ?



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11. True or false .If False , give the correct statement: Inhaled air contains a large



amount of carbon-di-oxide.



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**12.** True or false .If False , give the correct statement: Planting trees help in decreasing global warming.



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**13.** True or false .If False , give the correct statement: The composition of air is always

exactly the same.



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**14.** True or false .If False , give the correct statement: Whales come up to the water surface to breathe in oxygen.



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**15.** True or false .If False , give the correct statement: The balance of oxygen in

atmosphere is maintained through photosynthesis in animals and respiration in plants.



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**16. Match the following:**

1. Moving Air	Photosynthesis
2. Layer in which we live	Troposphere
3. Stratosphere	Wind
4. Oxygen	Ozone layer
5. carbon-di-oxide	Combustion



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**17.** Arrange the following statements in correct sequence.

1.Plants manufacture food by a process called photosynthesis.

2.Plants require energy for their growth.

3.Plants take carbon-di-oxide from the atmosphere, use chlorophyll in the presence of sunlight and prepare food.

4.Plants take in oxygen and release carbon-di-oxide just as animals.

5.Such oxygen is available to animals and human beings for breathing.

6. During this process, oxygen is released by plants.



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18. Differentiate burning and combustion.



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19. True or false. If false, give the correct statement. Combustion release large amount of light and heat.



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20. Give a note on Troposphere.



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21. \_\_\_\_\_ layer is responsible for the weather we experience on earth.



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22. \_\_\_\_\_ showed that "air is not an elementary substance, but a composition," or mixture of gases.



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23. Analogy: Photosynthesis : \_\_\_\_ :: Respiration : Oxygen.



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**24.** Analogy: 78% of air : Does not support combustion :: \_\_\_ supports combustion.



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**25.** What will happen if we remove plants from the aquarium?



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**26.** What is atmosphere?





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27. What is atmosphere? Name the five layers of atmosphere.



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28. How do the roots of land plants get oxygen for breathing?



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**29.** What should be done if the clothes of a person catch fire accidentally? Why?



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**30.** What will happen if you breathe through mouth?



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**31.** Biscuits kept open on a plate during monsoon days lose its'crispness.Why?



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**32.** Why do traffic assistants wear a mask on duty?



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**33.** How do plants and animals maintain the balance of oxygen and carbon-di-oxide in air?



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**34.** Why is atmosphere essential for life on earth?



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**35.** Who is Joseph Priestly?



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36. Movement of wind take place in\_\_\_ layer.

A. Troposphere

B. ozone

C. stratosphere

D. ionosphere

**Answer:**



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37. \_\_\_\_\_ is responsible for making clouds.

A. Hydrogen

B. Oxtgen

C. Water vapour

D. Carbon-di-oxide

**Answer:**



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38. Ozone is found in the \_\_\_\_ layer of the atmosphere.

A. Troposphere

B. Stratosphere

C. Mesosphere

D. Exosphere

**Answer:**



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39. \_\_\_\_ was able to identify highly reactive gas called oxygen.

A. Lavoisier

B. Ingenhousz

C. Rutherford

D. Joseph Priestley

**Answer:**



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40. During respiration carbon-di-oxide is exhaled out of the body through the \_\_\_.

A. Lungs

B. Heart

C. Kidney

D. Skin

**Answer:**



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41. \_\_\_ respire using their skin.

A. Fish

B. Frogs

C. Human Beings

D. Rats

**Answer:**



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42. \_\_\_gas cylinders are used for breathing purpose for a diver going deep into the sea.

A. Hydrogen

B. carbon-di-oxide

C. Oxygen

D. Nitrogen

**Answer:**



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**43.** Atmosphere is held in place by the earth's \_\_\_\_.



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**44.** The atmosphere is made of \_\_\_\_\_ different layers.



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**45.** A \_\_\_\_ shows the direction in which the air is moving at a particular place.



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46. The oxone layer protects all life on earth from the harmful \_\_\_\_\_ rays of the sun.



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47. Highly reactive gas was later named 'oxygen' by \_\_\_\_.



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48. \_\_\_\_\_ discovered nitrogen.



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49. Air contains small amount of  $CO_2$  Water vapour and some other gases like \_\_\_\_\_ etc.



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50. Air contains more \_\_\_ in rainy season.



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51. Find whether the following sentences are true or false.If false Correct the statement:  
When air is moving with cool and soothing it is called as cyclone.



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52. Find true or false.If false Correct the statement: Exosphere is the closest layer to the earth.



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**53.** Find whether the following sentences are true or false.If false Correct the statement: Jan Ingenhousz showed that chlorophyll is essential to the plant to carry out photosynthesis.



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**54.** Find whether the following sentences are true or false.If false Correct the statement: The



second major component of air is oxygen.



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**55.** Find whether the following sentences are true or false. If false Correct the statement: Air also contains small amount of carbon-dioxide, water and some other gases like argon, helium etc.



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**56.** Find whether the following sentences are true or false. If false Correct the statement: The amount of water vapour in the air is more in windy places than other areas.



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**57.** Match the following:

1. More industrial cities	a)	dust particles
2. Coastal areas	b)	Humidity
3. Rainy season	c)	Carbon di oxide
4. Windy places	d)	water vapour



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**58.** Analogy: Cool and soothing wind :Breeze.

uproot trees wind:\_\_\_\_\_



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**59.** Analogy: Weather changes : Troposphere.

Ozone layer\_\_\_\_\_



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**60.** Analogy: Oxygen: Joseph Priestley.

Nitrogen:\_\_\_\_\_



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**61.** Analogy: Respire through skin: \_\_\_\_\_::Respire

through Gills: Fish



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**62.** Give a note on respiration in plants.



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**63.** The air envelope is thicker near the earth's surface and we go higher the density and availability of air gradually decreases, Why?



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**64.** Give a note on Troposphere.



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**65.** Why aircraft usually fly above the troposphere layer?



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**66.** How to show that the presence of carbon-di-oxide in air?



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**67.** Write the composition of gases in atmosphere.



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**68.** The composition of air change slightly from place to place. Give examples.



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**69.** What is meant by burning?



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70. In Rockets , along with fuel oxygen is also carried for combustion-why?



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71. Write the word equation of photosynthesis.



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72. What is dry ice? What is its use?



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73. Write the uses of wind mills.



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74. Give the components present in the air with percentage?



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**75.** Prove by an experiment that Oxygen is released during photosynthesis.



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**76.** Prove by an experiment that oxygen is necessary for burning.



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**77.** Compare the composition of inhaled air and exhaled air.



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**78.** Write any four uses of air.



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**Exercise**

1. The constituent of air that supports combustion is \_\_\_\_.

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B. carbon-di-oxide

C. Oxygen

D. water vepour

**Answer:**



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2. \_\_\_\_ is the percentage of nitrogen in air

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3. \_\_\_\_ respire using their skin.

A. Fish

B. Frogs

C. Rats

D. Human beings

**Answer:**



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4. \_\_\_ was able to identify highly reactive gas called oxygen.

A. Lavoisier

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5. The oxone layer protects all life on earth from the harmful \_\_\_\_\_ rays of the sun.



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6. \_\_\_\_\_ is used in trucks or freight cars for refrigerating perishable items such as meat and fish.



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7. Name some extra - ordinary conditions where oxygen is used.



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**8.** Find whether the following sentence are true or false.If false correct the statement. Dry ice is a refrigerating agent.



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**9.** What is a weathercock?



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**10.** Explain about respiration of plants and animals in water.



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**11.** Take a few ice cubes in a glass. Keep it on the table for a few minutes. You could see tiny droplets of water all over the outer surface of the glass. From where do these droplets come?



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**12.** Biscuits kept open on a plate during monsoon days lose its'crispness.Why?



**Watch Video Solution**

**13.** Analogy: Photosynthesis : \_\_\_ :: Respiration :  
Oxygen.



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14. Who is Jan Ingenhousz?



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15. Analogy.

Industrial cites: \_\_\_\_\_ :: Windy places: dust particles.



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**16.** Why aircraft usually fly above the troposphere layer?



**Watch Video Solution**

**17.** Write the composition of gases in atmosphere.



**Watch Video Solution**

**18.** What is dry ice? What is its use?



**Watch Video Solution**

**19.** Write the word equation for respiration process.



**Watch Video Solution**

**20.** Why is atmosphere essential for life on earth?



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