



BIOLOGY

NCERT - NCERT Biology(TELUGU)

Respiration In Organisms

Example

1. Name the respiratory organs present in fish



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2. Fill in the blanks:

In a cockroach, a network of.....is found.



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3. Fill in the blanks:

.....are found on leaves for the exchange of
gases.



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4. Select correct answer and give reasons.

The process which involves the exchange of gases is called.

A. Respiration

B. Circulation

C. Digestion

D. Breathing

Answer:



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5. Select correct answer and give reasons.

During inspiration air passes into lungs due to

- A. Increased volume of thoracic cavity
- B. Fall in pressure inside lungs
- C. Increase in the volume of thoracic cavity
and fall in lung pressure
- D. Muscular expansion of lungs

Answer:



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6. Select correct answer and give reasons.

Roots respire through

A. Spiracles

B. Lenticels

C. Stomata

D. Air spaces

Answer:



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7. Select correct answer and give reasons.

Which of the following animals breathe through their skin and lungs?

A. Fish

B. Frog

C. Snake

D. Earthworm

Answer:



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8. Select correct answer and give reasons.

What happens to lime water, when we exhale air into it?

- A. Remains same
- B. Turns blue
- C. Turns milky
- D. Become colourless

Answer:



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9. Select correct answer and give reasons.

Plants respire through

A. Cells

B. Stomata

C. Gills

D. Gill membrane

Answer:



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10. Select correct answer and give reasons.

The respiratory organs in cockroach are

A. Lungs

B. Gills

C. Lenticles

D. Spiracles

Answer:



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11. What is respiration ? How is it different from breathing ?



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12. Frogs breathe through their skin as well as their lungs. Explain.



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13. If you want to know about "Actions of gases in lungs". What questions you would like to ask?



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14. If you did this experiment of respiration with fruits and dry leaves, what would the result be? Explain.



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15. It is very interesting to watch fish in an aquarium. Make your own bottle aquarium.



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16. Do you find any relationship between plants and animals by their respiration and photosynthesis?



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17. Asif wondered how plants and animals which live under water also respire. Do you know how?



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18. Imagine the lungs and size of an elephant. Is there any relation between body size and lung size? Collect information from school library or internet.



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19. Describe tracheal system of cockroach.



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20. How can you explain plants can respire and release carbondioxide?



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21. Explain how much air is in your breathe.





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22. How does the frog respire under the soil?



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23. Draw a neat labelled diagram of the experiment respiration in sprouted seeds.



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24. The air we breathe out is warmer than air because.



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25. What questions would you pose to clarify the doubts on respiration in plants?



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26. How do earthworms respire?



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27. How man takes advantages through artificially extracted oxygen?



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28. How oxygen is considered commercially great supporter in our day to day life?



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29. Draw the diagram of grasshopper showing the respiratory parts. Give a comment on it.



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Exercise

1. The process of breathing in and out is called.

A. Inspiration

B. Expiration

C. Inspiration and expiration

D. None of these

Answer:



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2. Breathing rate is

A. Number of times we breath per minute

B. Number of times we breath per second

C. Number of times we breath per hour

D. Number of times we breathe per 10 minutes

Answer:



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3. Expiration rate after exercises.

A. Increases

B. Decreases

C. Normal

D. Either increases or decreases

Answer:



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4. Human breathe is misty during.

A. Summer mornings

B. Summer evenings

C. Winter mornings

D. Rainy days

Answer:



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5. Fixed gas is

A. Oxygen

B. Helium

C. Chlorine

D. Carbondioxide

Answer:



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6. Lime stone reacts with acids give

A. Carbondioxide

B. Oxygen

C. Helium

D. Chlorine

Answer:



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7. Fixed gas was named by

A. Joseph Black

B. Von Helmont

C. Joseph Priestly

D. Lavoiser

Answer:



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8. Gases were first identified by

A. Von Helmont

B. Joseph Priestly

C. Joseph Black

D. Lavoiser

Answer:



Watch Video Solution

9. Oxygen was named by

A. Von Helmont

B. Joseph Priestly

C. Joseph Black

D. Lavoiser

Answer:



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10. He is the first to do experiments and observation on different kinds of air.

A. Von Helmont

B. Joseph Priestly

C. Joseph Black

D. Lavoiser

Answer:



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11. Gills are the respiratory organs in

A. Cockroach

B. Butterfly

C. Fish

D. Frog

Answer:



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12. Lime water turns into milky white by

A. Oxygen

B. Carbondioxide

C. Chlorine

D. Hydrogen

Answer:



Watch Video Solution

13. Gills are the respiratory organs in

A. Tadpole larvae

B. Frog

C. Cockroach

D. Butterfly

Answer:



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14. Frog respire through.....in summer and winter.

A. Gills

B. Lungs

C. Skin

D. Trachea

Answer:



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15. Small minute openings on the surface of stem are

A. Stomata

B. Spiracles

C. Lenticles

D. Nostrils

Answer:



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16. Small minute openings on either side of cockroach body are

A. Stomata

B. Spiracles

C. Lenticles

D. Nostrils

Answer:



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17. Earthworm respire through

A. Skin

B. Trachea

C. Gills

D. Lungs

Answer:



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18. Tracheal respiration is present in

A. Frog

B. Cockroach

C. Fish

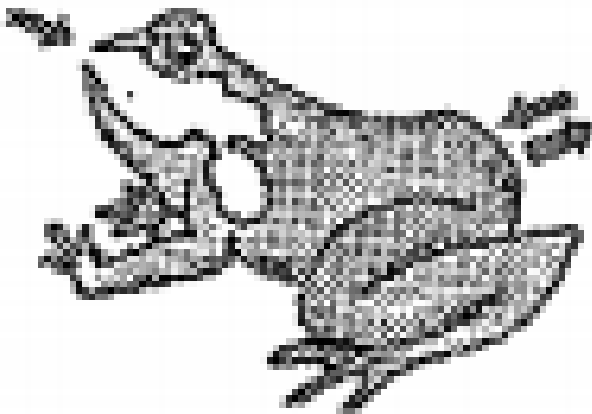
D. Earthworm

Answer:



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19. What do you observe in this picture?



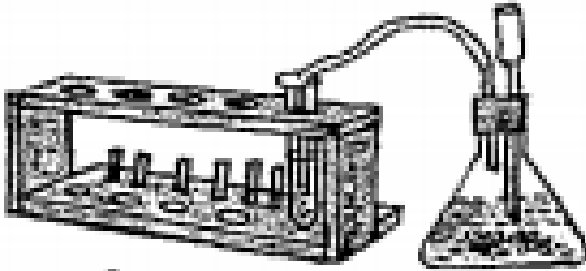
- A. Frog eating food
- B. Frog digestive system
- C. Frog respiratory system
- D. Frog reproductive system

Answer:



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20. Through this picture we can prove that



- A. photosynthesis
- B. respiration in plants
- C. transpiration in plants
- D. absorption of roots

Answer:



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21. In this picture what gas does the fish inhale?



A. Water

B. Carbondioxide

C. Hydrogen

D. Oxygen

Answer:



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22. In the following one cannot be a respiratory organ.

A. Trachea

B. Lungs

C. Skin

D. Heart

Answer:



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23. What are the parts which help in respiration of plants?

A. Stomata

B. Lenticles

C. Both A and B

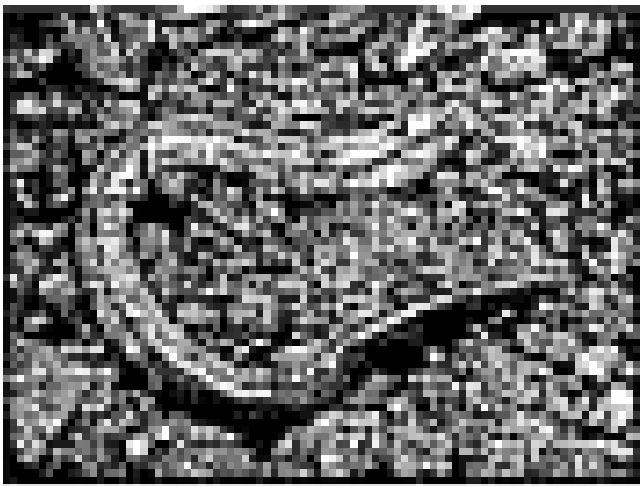
D. Leaves

Answer:



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24. Find out the respiratory organ in this organisms.



A. Lungs

B. Trachea

C. Gills

D. Skin

Answer:





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25. Which gas is very less in quantity in inhaled air?

A. Oxygen

B. Carbondioxide

C. Nitrogen

D. Hydrogen

Answer:



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26. Exhaled air does not contain the following gas.

A. Oxygen

B. Carbondioxide

C. Nitrogen

D. Hydrogen

Answer:



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27. Respiratory organs in frog tadpoles are

A. Lungs

B. Skin

C. Gills

D. Trachea

Answer:



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28. The respiratory organ in frog life history.

A. Skin

B. Lungs

C. Gills

D. All of these

Answer:



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29. It is called fixed gas

A. Oxygen

B. Carbondioxide

C. Hydrogen

D. Nitrogen

Answer:



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30. Gases exchange take place in this process.

A. Breathing

B. Circulation

C. Respiration

D. Digestion

Answer:



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31. Small minute openings on the surface of stem are

A. Stomata

B. Spiracles

C. Lenticles

D. Nostrils

Answer:



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32. Small minute openings on either side of cockroach body are

A. Stomata

B. Spiracles

C. Lenticles

D. Nostrils

Answer:



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33. Who conducted the experiments on mint sprig with burning candle?

A. Von Helmont

B. Joseph Black

C. Joseph Priestly

D. Lavoiser

Answer:



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34. What would happen if oxygen decreases in the atmosphere?



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35. Read the table and answer the questions:

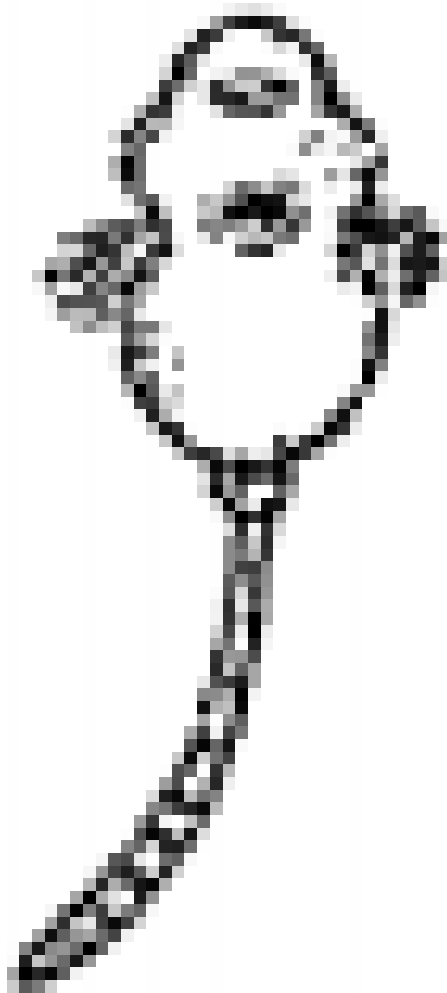
S.No.	Animal Name	Respiratory Organs
1.	Frog	Lungs or Skin
2.	Fish	Gills
3.	Grasshopper	Spiracles
4.	Man	Lungs

Tadpole larva of frog respire through?



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36. Name the given picture. How does it respire?





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37. What does our breath contain?



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38. Does the expiration rate increase or decrease after exercises?



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39. Draw a neat labelled diagram of arrangement of gills in fish.



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40. Do plants respire in the way humans do?



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41. Why do fish continuously open and close their mouth in water? Why do the flaps on

both sides of the head alternately open and close?



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42. Mention the differences between Respiration and Breathing.



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43. How do earthworms respire?



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44. Identify the correct one, give reasons :The process of gaseous exchange is

A. respiration

B. circulation

C. digestion

D. inhalation

Answer:



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45. Identify the correct one, give reasons :

Plants respire through

A. spiracles

B. lenticels

C. stomata

D. alveole

Answer:



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46. Select correct answer and give reasons.

Which of the following animals breathe through their skin and lungs?

A. fish

B. frog

C. snake

D. earthworm.

Answer:



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47. Identify the correct one, give reasons
:What will happen when you blow air into the
test containing lime water?

- A. remains same
- B. turns to blue colour
- C. turns to milky white
- D. becomes colourless

Answer:



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48. Identify the correct one, give reasons :

Respiratory organs of cockroach

A. lungs

B. gills

C. lenticels

D. trachea

Answer:



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49. What is respiration ? How is it different from breathing ?



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50. Frogs breathe through their skin as well as their lungs. Explain.



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51. Asif wondered how plants and animals which live under water also respire. Do you

know how?



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52. If you want to know about "Actions of gases in lungs". What questions you would like to ask?



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53. If you did this experiment of respiration with fruits and dry leaves, what would the

result be? Explain.



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54. Imagine the lungs and size of an elephant.

Is there any relation between body size and

lung size? Collect information from school

library or internet.



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55. It is very interesting to watch fish in an aquarium. Make your own bottle aquarium.



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56. Do you find any relationship between plants and animals by their respiration and photosynthesis?



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57. Don't we feel suffocated if we don't get air even for a short while!



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58. What is breathing ?



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59. How long could you keep your mouth and nose closed ?



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60. What did you feel after keeping your mouth and nose closed for so long ?



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61. What did you feel on your finger when your friend exhaled ?



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62. What is human respiration rate ?



Watch Video Solution

63. What is human respiration rate ?



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64. Do exercise and running affect the rate at which we breathe in and out?



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65. How does the width of the chest change when air is inspired or exhaled?



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66. Is exhaled air warmer than inhaled air.



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67. Often you may have experienced that if you have tension for some reason you start having loose motions . What does this show us ?



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68. What happens if you blow air on a mirror?



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69. Would it be correct to say that exhaled air is more moist than air from a syringe?



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70. Are the inspired air and expired air similar? If they are not, what are the differences between them ?



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71. What happens to air after it reaches our lungs ?



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72. Why do fish continuously open and close their mouth in water? Why do the flaps on both sides of the head alternately open and close?



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73. What are the respiratory organs in fish?



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74. How does a fish breath?



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75. How does frog breathe in land and in water ?



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76. How do tadpoles (baby frogs) breathe in ?



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77. How do cockroaches (insects) respire?



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78. How do earthworms respire?



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79. Write about the breathing in plants.



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80. Can you say that flowers, buds and sprouted seeds respire ?



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81. What can you say about the taking in and giving out of gases in plants ?



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82. Is exhaled air warmer than inhaled air.



Watch Video Solution

83. Is the air from the syringe also warm ?



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84. Why did this happen ?



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85. Does the expiration rate increase or decrease after exercises?



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86. Crocodile, alligator are both the same?

Actually they are not similar. Do you find any difference between them? What are they?



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87. A concave mirror has a focal length of 25 cm. A person wants to see his face in this mirror, at what distance should the person stand ?



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88. A concave mirror has a focal length of 25 cm. A person wants to see his face in this mirror, at what distance should the person stand ?



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89. On the basis of this experiment would it be correct to say that exhaled air is more moist than air from a syringe ?



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90. Did the lime water change colour ?



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91. Lime water changes to milky is a



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92. What effect did the experiment with sprouted seeds have on the lime water ?



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93. On the basis of your observations in the bell jar experiments can you say that flowers, buds and sprouted seeds respire ? Give reasons for your answer.



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94. What is breathing ?



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95. What is inspiration and expiration ? Explain the term 'respiration rate'.



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96. Does the expiration rate increase or decrease after exercises?



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97. What is the difference between inhaled and exhaled air ?



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98. Do plants respire ?



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99. What does our breath contain?



Watch Video Solution

100. Why do fish continuously open and close their mouth in water? Why do the flaps on both sides of the head alternately open and close?



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101. How do plants respire?



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102. At what time plants respire and photosynthesize ?



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103. What is use of oxygen in hospitals ?



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104. What happens to your chest when you take a breath ?





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105. What questions would you pose to clarify the doubts on respiration in plants?



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106. Describe tracheal system of cockroach.



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107. How many times do you breathe in a minute?



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108. How do you find respiration in sprouted seeds ?



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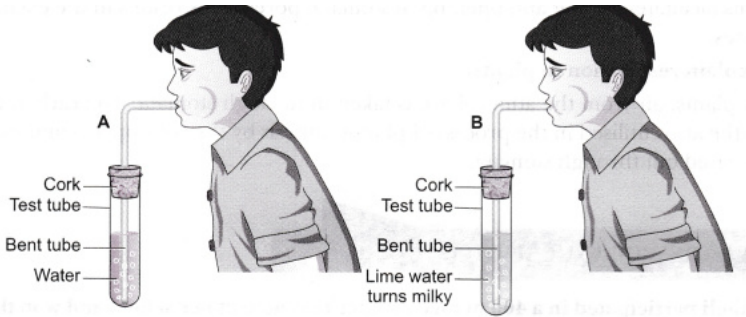
109. How long a person can hold his / her breath? How do you find?



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110. In the given picture there is a lime water in A and B test tubes. A boy is breathing out the air into the test tubes. Predict your answers for the following : What was the colour of lime water in test tubes 'A' and 'B'

before you began the experiment ?



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111. In the given picture there is a lime water in A and B test tubes. A boy is breathing out the air into the test tubes. Predict your answers for the following : In which test tube did the

lime water turn milky after you blew in and sucked out air ?



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112. In the given picture there is a lime water in A and B test tubes. A boy is breathing out the air into the test tubes. Predict your answers for the following : What difference between inspired and expired air ?



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113. How can you explain plants can respire and release carbondioxide?



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114. Read the table and answer the questions :
What are the respiratory organs of man ?

S.No.	Animal name	Respiratory organs
1.	Frog	Lungs or skin
2.	Fish	Gills
3.	Grasshopper	Spiracles
4.	Man	Lungs



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115. Read the table and answer the questions :

How does a frog respire when it enters the water body

S.No.	Animal name	Respiratory organs
1.	Frog	Lungs or skin
2.	Fish	Gills
3.	Grasshopper	Spiracles
4.	Man	Lungs



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116. Read the table and answer the questions :

In which organism we find spiracles as

respiratory

organs

?

S.No.	Animal name	Respiratory organs
1.	Frog	Lungs or skin
2.	Fish	Gills
3.	Grasshopper	Spiracles
4.	Man	Lungs



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117. Read the table and answer the questions:

S.No.	Animal Name	Respiratory Organs
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2.	Fish	Gills
3.	Grasshopper	Spiracles
4.	Man	Lungs

Tadpole larva of frog respire through?



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118. Draw the diagram of gills in a fish. Label the parts.



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119. Draw the diagram of respiratory organs of a cockroach. Label the following parts :
Spiracles



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120. The process of breathing out air is called

- A. Inspiration
- B. Expiration
- C. Excretion
- D. Transpiration

Answer:



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121. ___ are the respiratory organs of fish

A. Gills

B. lenticells

C. sweat glands

D. Nose

Answer:



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122. "The present on the surface of stem help the plant in the process of respiration. "

A. stomata

B. Skin

C. stamen

D. spiracles

Answer:



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123. The number of times we breathe in and breathe out air in ___ time is called the respiration rate.

A. one second

B. one minute

C. one hour

D. one day

Answer:



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124. Respiration takes place through the skin in the following animals ____

A. snake

B. cockroach

C. earthworm

D. fish

Answer:



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125. ___gas changes the colour of lime water into milky white.

A. oxygen

B. nitrogen

C. hydrogen

D. carbondioxide

Answer:



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126. Respiratory organs in frog tadpoles are

A. gills

B. skin

C. cells

D. lungs

Answer:



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127. Select correct answer and give reasons.

During inspiration air passes into lungs due to

- A. increased volume of thoracic cavity
- B. Fall in pressure inside the lungs
- C. increase in volume of thoracic cavity and
fall in lung pressure
- D. Muscular expansion of lungs

Answer:



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128. Select correct answer and give reasons.

What happens to lime water, when we exhale air into it?

A. remains same

B. turns blue

C. turns milky white

D. becomes colourless

Answer:



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129. The percentage of CO_2 present in air by volume is

A. 0.21

B. 0.79

C. 0.0004

D. 0.04

Answer:



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130. Joseph Black called gas as fixed air.

A. Oxygen

B. carbondioxide

C. hydrogen

D. chlorine

Answer:



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131. _____gave name to the oxygen.

A. Von Helmont

B. Joseph Black

C. Joseph Priestly

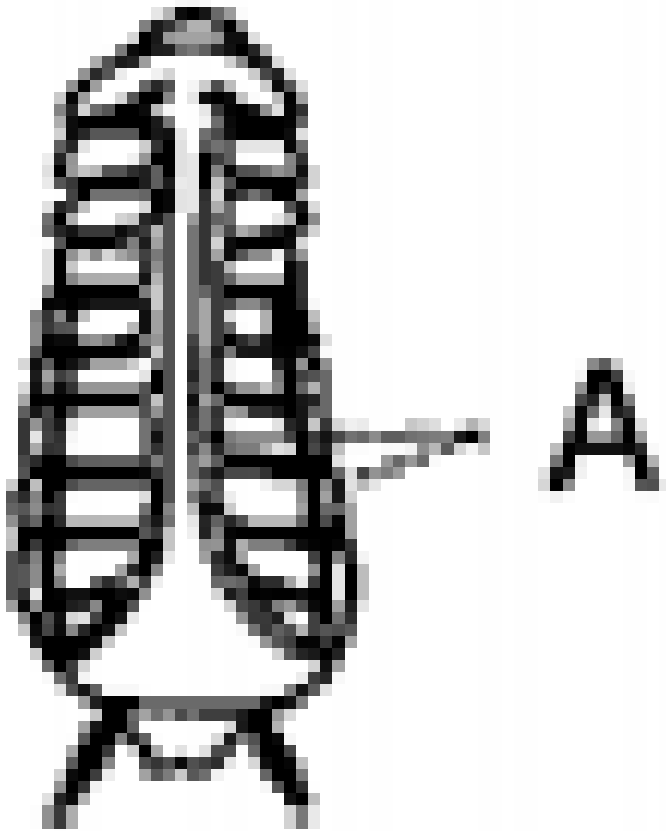
D. Lavoiser

Answer:



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132. Identify the part 'A' given in the fig.



A. Spiracles

B. Trachea

C. Gills

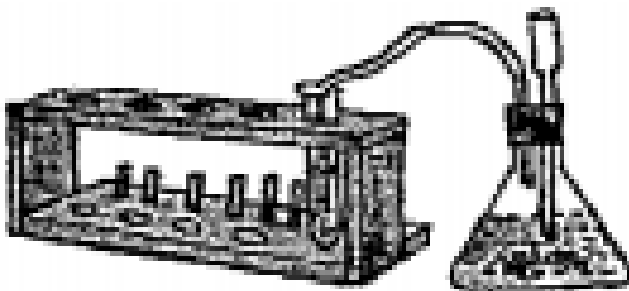
D. lungs

Answer:



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133. The gas released in the experimental set up shown in the fig. is ___



A. oxygen

B. carbondioxide

C. hydrogen

D. nitrogen

Answer:



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134. Fill in the blanks and give reasons :

_____are the respiratory organs of fish.



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135. Fill in the blanks:

In a cockroach, a network of.....is found.



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136. Fill in the blanks:

.....are found on leaves for the exchange of gases.



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Improve Your Learning Fill In The Blanks

1. ___ are the respiratory organs of fish



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2. Fill in the blanks:

In a cockroach, a network of.....is found.



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3. Fill in the blanks:

.....are found on leaves for the exchange of gases.



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Improve Your Learning

1. What is respiration ? How is it different from breathing ?



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2. Frogs breathe through their skin as well as their lungs. Explain.



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3. If you want to know about "Actions of gases in lungs". What questions you would like to ask?



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4. If you did this experiment of respiration with fruits and dry leaves, what would the result be? Explain.



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9. ___ are the respiratory organs of fish



Watch Video Solution

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11. Fill in the blanks:

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Watch Video Solution

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and fall in lung pressure.

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Answer:



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Roots respire through

A. Spiracles

B. Lenticels

C. Stomatad

D. Air spaces

Answer:



Watch Video Solution

15. Select correct answer and give reasons.

Which of the following animals breathe through their skin and lungs?

A. Fish

B. Frog

C. Snake

D. Earthworm

Answer:



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16. Select correct answer and give reasons.

What happens to lime water, when we exhale air into it?

- A. Remains same
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- C. Turns milky
- D. Becoms colourless

Answer:



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17. Select correct answer and give reasons.

Plants respire through

A. Cells

B. Stomata

C. Gills

D. Cell membrane

Answer:



Watch Video Solution

18. Select correct answer and give reasons.

The respiratory organs in cockroach are

A. Lungs

B. Gills

C. Lenticels

D. Spiracles

Answer:



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