



BIOLOGY

BOOKS - VGS BRILLIANT BIOLOGY (TELUGU ENGLISH)

RESPIRATION

Improve Your Learning Conceptual Understanding

1. Distinguish between Inspiration and Expiration



2. Distinguish between Aerobic and Anaerobic respiration



3. Respiration is energy producing process in the organisms . It takes place both in the presence and absence of oxygen. Laxmi said there are some differences between the two processes . How do you support her?



4. Distinguish between Respiration and Combustion



5. Even though both are oxidation processes, combustion and respiration are different in many aspects. Explain those differences .



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6. Distinguish between Respiration and Combustion



7. Distinguish between Photosynthesis and Respiration



8. Difference between food preparation process - energy releasing process.



9. Distinguish between Photosynthesis and Respiration



10. State two similarities between aerobic and anaerobic respiration.



11. State two similarities between aerobic and anaerobic respiration.



12. Food sometimes enters the wind pipe and causes choking. How does it happen?



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13. Food sometimes enters the wind pipe and causes choking. How does it happen?



14. Why does the rate of breathing increase while walking uphill at a normal pace in the mountains? Give two reasons.



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15. "Air leaves the tiny sacs in the lungs to pass into capillaries." What modification is needed in the statement?



16. All plants give out oxygen during day carbon dioxide during night . Do you agree with this statement ? Give reason



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17. Why does a deep sea diver carry oxygen cylinder on his/her back?



18. How are alveoli designed to maximise the exchange of gases ?



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19. Where will the release of energy from the glucose in respiration take place '? Mala writes lungs, while Jiya writes muscles. Who is correct and why?



20. What is the role of epiglottis and diaphragm in respiration?



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21. How does gaseous exchange take place at blood level ?



22. Explain the mechanism of gaseous exchange at bronchiole level.



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23. After undergoing strenuous exercise we feel pain in muscles, does adequate oxygen reach the muscles?



24. Priyadarshini while playing Kho-Kho, she got muscle pain. What might be the reasons for it?



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25. Raju said , " Stems also respire along with leaves in plants ". Can you support this statement? Give your reasons



Improve Your Learning Asking Question And Making Hypothesis

1. What will happen, if there is no diaphragm in the human body?



- 2. if you have a chance to meet pulmonologist, what questions are you going to ask about pulmonary respiration?
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3. if you have a chance to meet pulmonologist , what questions are you going to ask about pulmonary respiration ?



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Improve Your Learning Experimentation And Field Investigation

1. What procedure do you follow to understand anaerobic respiration in your

school laboratory?



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2. What procedure do you follow to understand anaerobic respiration in your school laboratory?



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3. How do yeast cells convert glucose solution to CO_2 and ethyl alcohol ?



4. What are your observations in combustion of sugar activity?



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Improve Your Learning Information Skills And Projects

1. Collect information about cutaneous respiration in frog. Prepare a note and explain them in your classroom.



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2. How does frog respire with the help of skin



3. Collect information about respiratory diseases (because of pollution, tobacco) and discuss with your classmates.



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Improve Your Learning Communication Through **Drawing Model Making**

1. What is the pathway of air from nostril to alveolus?



2. Draw a block diagram showing events in respiration . Write what you understood about cellular respiration :



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Improve Your Learning Appreciation And Aesthetic Sense Values

1. How do you appreciate the mechanism of respiration in our body?



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Improve Your Learning Application To Daily Life Concern To Biodiversity

 Prepare an article on anaerobic respiration to present school symposium



2. Prepare a cartoon on discussion between haemoglobin and chlorophyll about respiration.



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Question Given In The Lesson 1 Mark Questions

1. What gas was produced by combustion according to Lavoisier?



2. What didi Lavoisier find out about air from the experiments?



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3. What conclusion can be drawn from Lavoisier's experiments?



4. Which gas do you think is Lavoisier talking about when he says chalky acid gas ?



5. Which gas according to Lavoisier is respirable air ?



6. It is a common observation that our breath is warmer than the air around us, does respiration have anything to do with this?



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7. What does this experiment indicate?



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8. Which gas turns lime water milky?

9. Which gas to do think might be present in greater quantities ?



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10. We are also aware of the fact that water vapour deposits on a mirror if we breathe out on it, where does this water vapour come from in Exhaled air?





11. Why are we advised not to talk while eating food?



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12. What can be concluded from this?



13. What happens during the process of breathing?



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14. Which gas needs to be removed from our body during exhalation? Where does the extra amount of gas come from ?



15. What is the composition of inhaled air?



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16. When exhaled air is compared with inhaled air, is there any difference in composition ?



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17. Why does the amount of oxygen vary between exhaled and inhaled air?

18. What has raised the percentage of carbon dioxide in exhaled air?



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19. After undergoing strenuous exercise we feel pain in muscles, does adequate oxygen reach the muscles?



20. What is being formed in the muscles?



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21. In which set does the colour change faster

? Why ?



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Question Given In The Lesson 2 Mark Questions

1. Can it be said that Priestly's experiment helped us to find out more about composition of air? How?



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2. What steps in the process of respiration does Lavoisier mention?



3. What is the role of diaphragm and ribs in respiration? Are both active in man and woman?



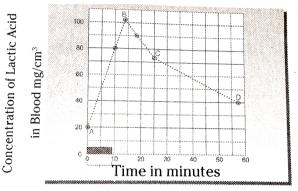
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4. Do cells of alveoli or lungs also require oxygen to carry out cellular respiration? Why / Why not?



Question Given In The Lesson 4 Mark Questions

1. Observe the following graph and answer the questions given below.

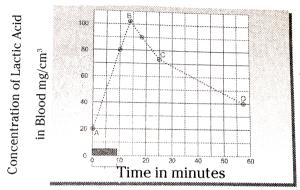


Graph showing effects of vigorous excercise on the concentration of lactic acid in blood.

What was the concentration of lactic acid in the blood to start with ?



2. Observe the following graph and answer the questions given below .

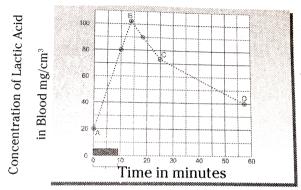


Graph showing effects of vigorous excercise on the concentration of lactic acid in blood.

What was the greatest concentration reached during the experiment?



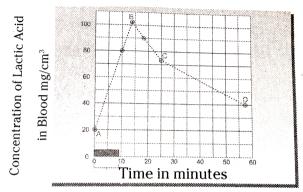
3. Observe the following graph and answer the questions given below .



Graph showing effects of vigorous excercise on the concentration of lactic acid in blood.

What are the consequences of oxygen deficit?

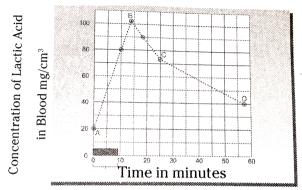




Graph showing effects of vigorous excercise on the concentration of lactic acid in blood.

What does high level of lactic acid indicate about the condition of respiration?

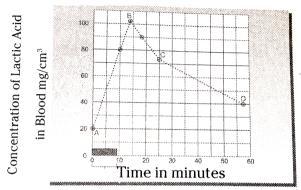




Graph showing effects of vigorous excercise on the concentration of lactic acid in blood.

What are the two aspects discussed through graph?

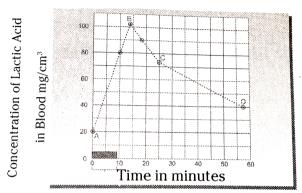




Graph showing effects of vigorous excercise on the concentration of lactic acid in blood.

In which state lactic acid concentration is more?

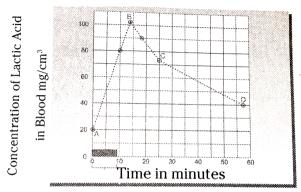




Graph showing effects of vigorous excercise on the concentration of lactic acid in blood.

Why oxygen deficit in muscles of running Athlet?





Graph showing effects of vigorous excercise on the concentration of lactic acid in blood.

What are the consequences of oxygen deficit?



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Think Discuss

1. What will happen if the respiratory tract is not moist?



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2. Are both lungs similar in size?



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3. Why are alveoli so smell and uncountable in number?



Fill In The Blanks

1. Exhaled air contains ___ and ___



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2. A flap like muscular valve controls movement of air and food is



3. Energy currency of the cell is called
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4. Lenticels are the respiratory organs that exist in part of the plant.
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5. Mangrove trees respire with their
Watch Video Solution

Choose The Correct Answer

- 1. We will find vocal cords in
 - A. Larynx
 - B. Pharynx
 - C. Nasal cavity
 - D. Trachea

Answer: a



- 2. Cluster of air sacs in lungs are called
 - A. Alveoli
 - B. Bronchi
 - C. Bronchioles
 - D. Air spaces

Answer: a



- **3.** Which of the following is correct?
- (i)The diaphragm contracts volume of chest cavity increased
- (ii)The diaphragm contracts volume of chest cavity decreased
- (iii)The diaphragm expands volume of chest cavity Increased
- (iv)The diaphragm expands volume of chest cavity decreased
 - A. i
 - B. I and ii

C. ii and iii

D. iv

Answer: a



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4. Respiration is a catabolic process because of

A. Breakdown of complex food molecules

B. Conversion of light energy

- C. Synthesis of chemical energy
- D. Energy storage

Answer: a



- **5.** Energy is stored in
 - A. Nucleus
 - B. Mitochondria
 - C. Ribosomes

D. Cell wall

Answer: b

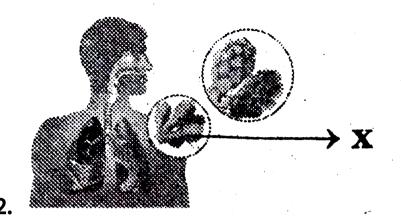


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Creative Questions For New Model Paper 1 2
Mark Questions

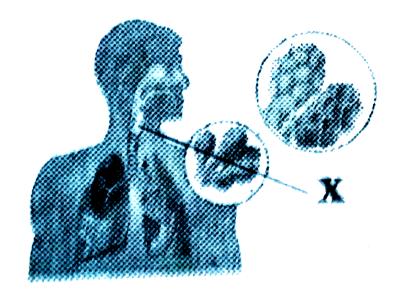
1. What does this experiment indicate?





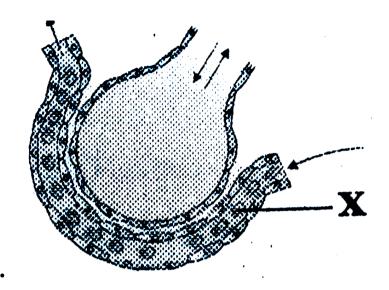
Name the labelled part 'x' in the above figure.





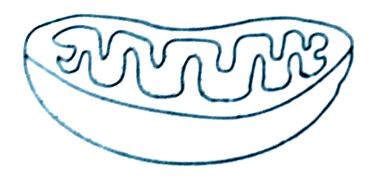
What is the function of labelled part 'x' in the above figure ?





The labelled part 'x' in the above figure denotes.

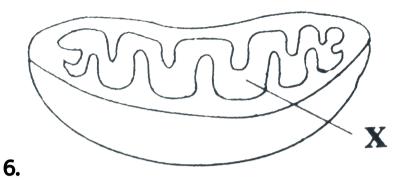




5.

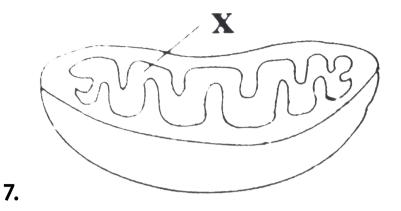
The above shown figure, with which it is associated?





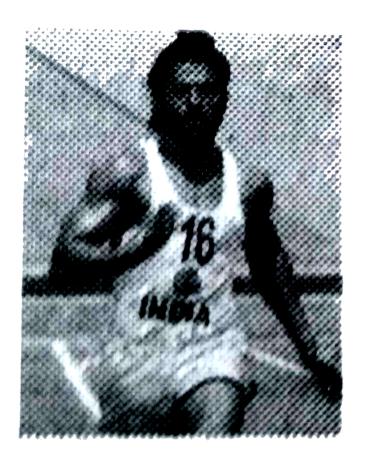
Name the labelled part 'x' in the above figure.





Name the labelled part 'x' in the above figure.

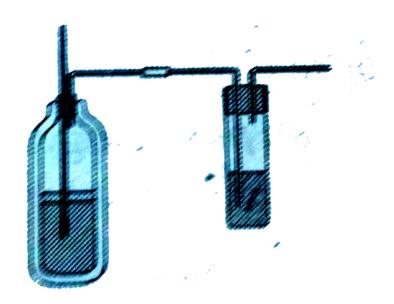




8.

Why did this athlete get muscle cramps after his running race?

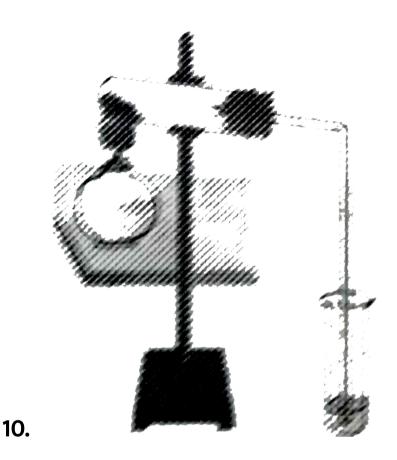




What is the aim of this experiment?

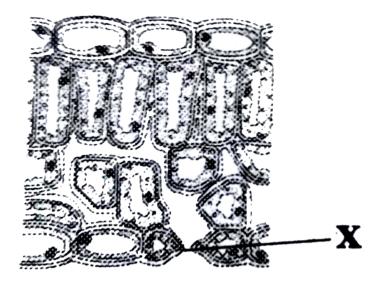


9.



What do you prove from this experiment?

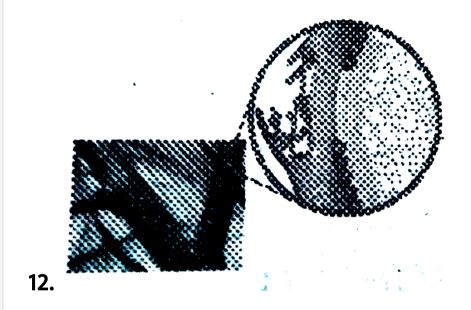




11.

Wha is the function of the labelled part 'x' in the above figure ?





Identify these respiratory structures on woody stems





13.

In which plants can you observe these structures?





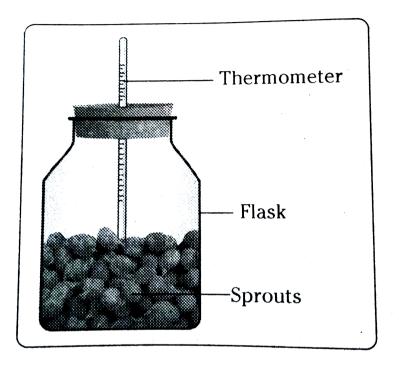
14.

Which gas in this experiment turns the lime water milky?



15. In your opinion, where did this heat come

from?





- 16. Identify the mismatched pairs.
- (1)Frog -Skin
- (2)Cockroach -Diffusion
- (3)Amoeba Trachea



- 17. Identify the mismatched pairs .
- (1) Respiratory roots Mangrove plants
- (2) Hallow stems Hydrophytes
- (3)Storage roots Xerophytes



- 18. Identify the mismatched pair.
- (1)ATP-Energy currency
- (2)Mitochondria Power house of the cell
- (3)Lactic acid -Ethanol.



- **19.** Identify the mismatched pair
- (1)Fish-Gills

- (2) Grasshopper Skin
- (3)Whale Lungs



20. I am a red coloured pigment present in the blood . I help in the transportation of gases .

Who am I?



21. I can undergo anaerobically and can convert glucose into ethanol. Who am I?



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22. I occur when 'oxygen debt ' arises in muscles . I cause muscle cramps. Who am I?



23. I am a flap like structure, arresting the entry of food into respiratory tract. Who am I?



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24. Complete the following blanks .

____ (1) play a major role in coagulation of blood ___ (2) helps in transportation of respiratory gases .

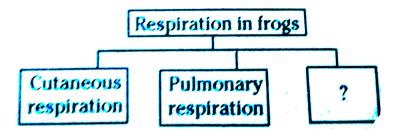


- **25.** Complete the following blanks
- ____(1) is the site of cellular respiration. It is also known as (2)
 - **Watch Video Solution**

26. In marshy areas we can observe ____ (1) roots in the plants. These roots have ____ (2) which connect the stems with roots, making diffusion from the upper part much more effectively.

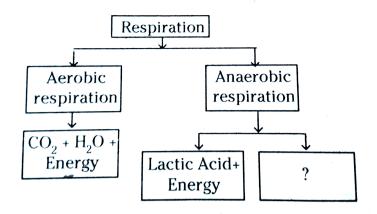


27. Observe the flow chart and complete the blanks .





28. Observe the flow chart and complete the blanks .





29. Identify the scientist

He conducted many experiments on the properties of gases . He identified CO_2 and he called it as fixed gas.



30. Identify the scientist

He was a renowned chemist. He wrote a textbook of "Human physiology " in the mid - 19th century.



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31. I am the structural and functional unit of lung. Who am I?



32. Expand A. T.P.



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33. Identify the scientist

He stated that respiration is a type of combustion and combustion is the source of heat in animals .



34. Identify the scientist.

He wrote in a compilation in 1783, "respiration is a combustion process. It is a very slow process and here oxygen is not only combines with carbon but also with hydrogen."



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35. Read the sentence, find the error and rewrite it

 $Hb+O_2 o HbO_2$ (in tissues)

 $HbO_2
ightarrow Hb + O_2$ (in lungs)



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36. Read the sentence, find the error and rewrite it.

In prokaryotes, cellular respiration occurs in matrix.



37. Read the sentence, find the error and rewrite it.

During cellular respiration the energy is produced . It is stored as ATP in the form of carbon bonds.



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38. Read the sentence, find the error and rewrite it

At a height of 13 km, the concentration of oxygen is much lower about 1/6th at sea level.



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39. If oxygen is not utilised, pyruvic acid is converted in to either ___ (1) or ___ (2) and very little amount of energy is liberated.



40. Read the sentence, find the error and rewrite it.

Diaphragm plays an important role in the respiratory movements in women



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41. Which of the following group constitute the right pathway of gases in the respiratory system?

A. Nostrils $\,
ightarrow \,$ Nasal cavity $\,
ightarrow \,$ Larynx $\,
ightarrow \,$

Pharynx \rightarrow Bronchus \rightarrow Trachea \rightarrow

Bronchioles \rightarrow Alveolus \rightarrow Blood

B.Nostrils ightarrow Nasal cavity ightarrow Pharynx ightarrow

Larynx ightarrow Trachea ightarrow Bronchus ightarrow

Bronchioles \rightarrow Alveolus \rightarrow Blood



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42. Which of the following group represent the correct sequence of steps in respiration

A.Breathing \rightarrow Gaseous exchange at lungs

ightarrow Gaseous exchange at tissue level ightarrow Gas

transport by blood \rightarrow Cellular respiration .

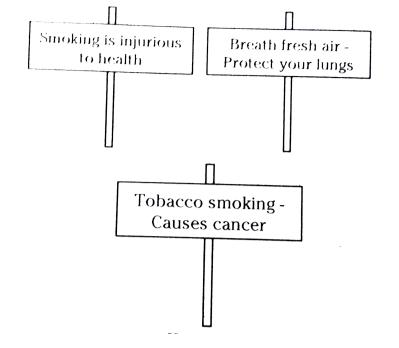
B. Breathing \rightarrow Gaseous exchange at lungs

ightarrow Gas transport by blood ightarrow Gaseous exchange at tissue level ightarrow Cellular respiration.

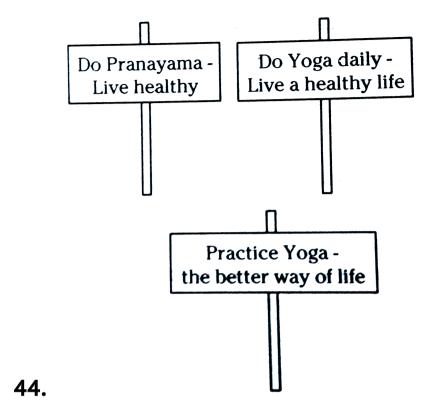


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43. Observe the following placards . In which occasion do you use them?







Observe the following placards . On which occasion do you use them in your school?



45. Man: Lungs, Fish:?



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46. Lenticels: Hard woody stems, Respiratory

roots:?



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47. Males: Diaphragm, Females:?



48. Brain: Meninges, Lungs:?



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49. Sites of photosynthesis: Chloroplasts,

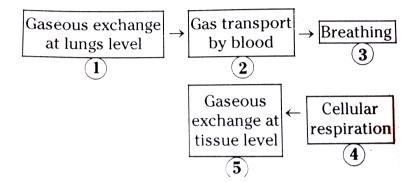
Sites of cellular respiration:?



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50. ATP : Energy Currency , Mitochondria : ?

51. Arrange the flow chart in correct order.





52. I am the site of cellular respiration . I also known as "the power house of the cell " . Who

am I?



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53. I am known as "energy currency " Who am I ?



Watch Video Solution

54. I am a process through which alcohol, dough are prepared . I occur in the absence of oxygen . Who am I?



55. I am an indicator . I am used to detect the presence of oxygen . Who am I ?



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56. I am the mode of respiration in unicellular, Hydra and planarians. Who am I?



57. I am a type of respiratory system present in most of the arthropods like grasshopper and cockroach . Who am I ?



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58. I am a mode of respiration. I am present in aquatic animals like fishes . Who am I?



59. I am present in leaf . I am very useful in gaseous exchange . Who am I ?



Watch Video Solution

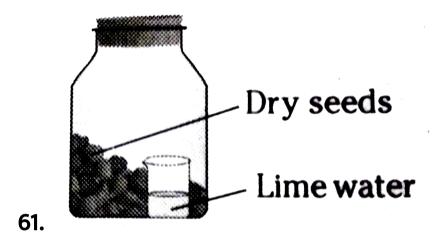
60. Complete the blanks .

____(1) stems are present in aquatic plants

.____ (2) are present to reduce their weight on

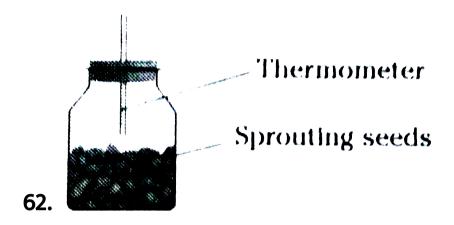
water.





Observe the above experimental setup. The student had committed a mistake in arranging the apparatus. What was it?





Identify the mistake in the experimental setup.



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63. I am the respiratory substrate. I am oxidised during respiration. Who am I?



64. I am the structural and functional unit of lung. Who am I?



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65. I am a respiratory gas. I can turn the lime water milky. Who am I?



66. I can perform three types of respiration.

I can perform respiration through skin, lungs and bucco - pharyngeal cavity . Who am I?

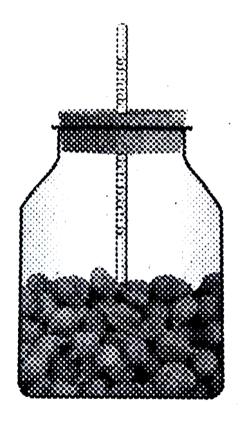


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67. Where do we observe aerial roots?



68. Vamsi conducted the experiment shown in the diagram. The temperature in thermometer rises. What is the aim of this experiment?



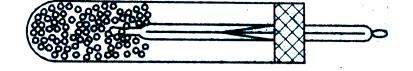


69. Which of the following are essential to conduct the experiment to prove that heat is liberated during respiration?(i)Flask , (ii)Thermometer , (iii) Cork , (iv)Sprouting seeds , (v)Lime water , (vi)Dry seeds.



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70. The following alternative apparatus arrangement is to prove ____





71. Identify the scientist. "Respiration was a process like combustion"



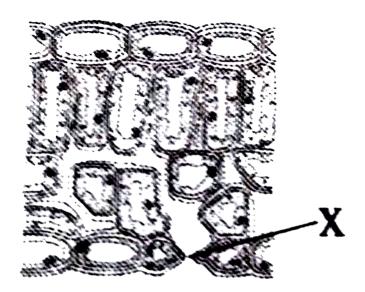
72. What is the role of Janus Green -B indicator in anaerobic experiment with yeast ?





Identify the given figure.

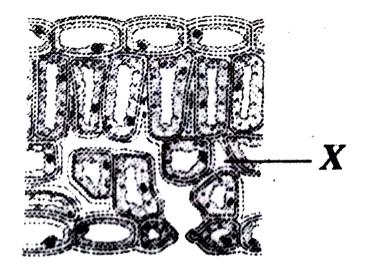




74.

Identify 'X'





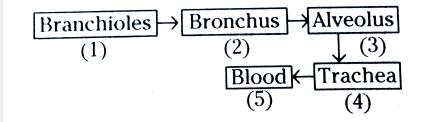
75.

In the figure, X denotes.



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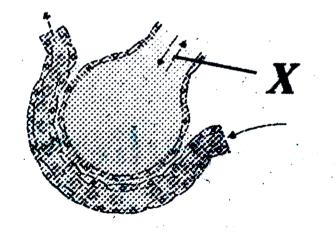
76. Arrange the following flow chart in the correct order .





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77. In this figure, x denotes the following



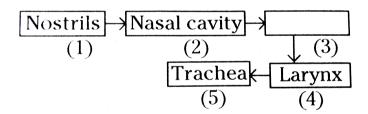


78. Man : Lungs , Frog : _____



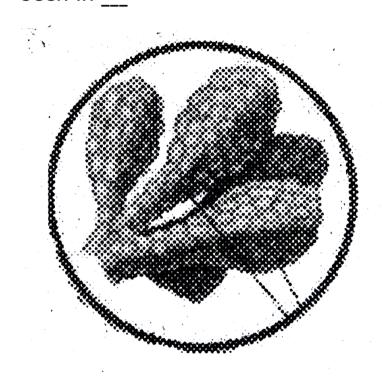
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79. Complete this flow chart.



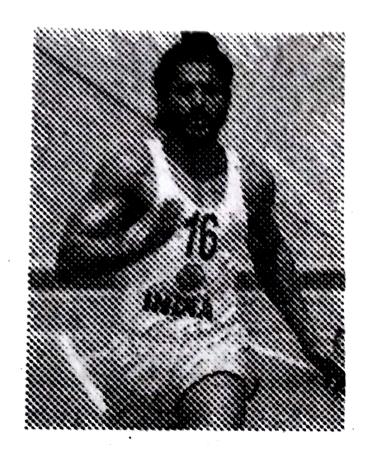


80. The bunch of grapes like structures are seen in





81. During the race, this athlete got severe muscular pain and fell down. Can you guess the reason for that?



Creative Questions For New Model Paper Preparation Questions For The Examination Purpose

1. Which gases are exchanged in your lungs?



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2. What are the components present in exhaled air?



3. We can use lime water to test the presence of CO_2 in respiration experiments. What change do you observe in lime water ?



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4. What is the chemical used to identify the presence of oxygen is anaerobic respiration experiment?



5. What is the energy currency of the cell?



6. What is the total lung capacity of human being?



7. If green plants are not there on earth what happens ?

8. What is the percentage of CO_2 in exhaled air ?



9. What are the structural and functional units of the lungs ?



10. if the quantity of particular matter increases in air, what will happen?



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11. What is the middle step between gaseous exchange at lungs level and tissue level?



12. What happens if there is no epiglottis in human beings?



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13. Where do you find vocal cords?



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14. In which process food is broken down for release of energy?



15. From which language the word respiration came ?



16. Which gas is liberated on heating powdered charcoal?



17. What gas is needed for combustion of substances?



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18. Where does gaseous exchange take place in lungs?



19. In which part of the respiratory systems the air is filtered?



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20. Name the muscular valve in the pharynx controls movement of air and food towards their respective passages .



21. From where do the single celled organisms get oxygen?



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22. What is the life span of RBC?



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23. What is the percentage of oxygen in the exhaled air?



24. Name the oxygen carrying pigment in blood



25. In bacteria, where does the cellular respiration take place?



26. How many calories of energy is obtained from 1 ATP molecule ?



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27. Name the first stage in the oxidation of glucose molecule.



28. what is reason for mascular pains after strenuous exercises ?



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29. Name the process involved in the preparation of bread and alcohol



30. In plants gaseous exchange occurs through?



31. Where can you observe respiratory roots?



32. What are the end products of aerobic respiration?



33. Name the structure that plays important role in respiratory movements.



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34. Where you can observe lenticels?



35. What is the function of lenticels?



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36. The lungs are surrounded by two protective layers. What do you call them?



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37. Name the metal present in haemoglobin



38. What is the unstable compound formed, when oxygen combines with haemoglobin.



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39. What is the compound formed , when CO_2 is combined with haemoglobin ?



40. What is the site of respiration in eukaryotic cells ?



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41. What is "the power house of the cell "?



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42. In glycolysis, the glucose is converted into which form?



43. Name the microorganism associated with fermentation process.



44. The blue dye Diazine green turns to which colour when the supply of oxygen around it is short?



45. Which gas is released when a baker prepares a dough by mixing yeast in it?



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46. When we preserve idly, dosa dough at our home, we will notice the smell of alcohol. Can you guess the reason for it?



47. What are the end products of fermentation



?

48. By which process ethanol can be separated from yeast glucose mixture ?



49. What is the boiling temperature of ethanol



50. What type of adaptation you can see in the plants growing in water logged conditions?



51. What type of chemical reaction is respiration?



52. In which part of the respiratory system of man , you can observe the 'C' shaped cartilagenous rings?



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53. "Haemoglobin is dissolved in plasma ". In which animal you can observe this condition?



54. Name the part that plays major role in respiratory movements in woman .



Watch Video Solution

55. Give two examples for amphibians



Watch Video Solution

56. By which process the carbondioxide in the blood is exchanged for oxygen in the alveoli?



57. In which animals we can observe tracheal respiratory system ?



58. Where can we can observe breathing or aerial roots?



59. What is the percentage of oxygen in atmosphere?



Watch Video Solution

60. What are the respiratory organs of Dolphins?



61. What do the mountaineers and deep sea divers carry on their backs ?



Watch Video Solution

62. In which plants we can observe a special tissue to produce oxygen for respiration ?



63. Why do we conduct bell jar experiment with sprouted seeds and lime water beaker?



Watch Video Solution

64. How do you infer the presence of CO_2 in respiration experiments ?



65. Why do we conduct bell jar experiment with sprouted seeds and thermometer?



Watch Video Solution

66. Where do you find mangrove forests?



Watch Video Solution

67. Which gas is evolved during the combustion of sugar?



68. Why lactic acid is formed in the muscles of athletes which causes severe pain ?



Watch Video Solution

69. Give two examples for respiratory diseases.



70. How much amount of air remains in lungs after complete exhalation ?



Watch Video Solution

71. What are the respiratory organs of Cockroach?



72. What is the process through which respiration takes place in Amoeba and hydra?



Watch Video Solution

73. In which organism do you observe cutaneous respiration ?



74. Name the respiratory organs present in fish



Watch Video Solution

75. What are the respiratory organs of pulmonary respiration ?



76. What is the main function of haemoglobin in blood ?



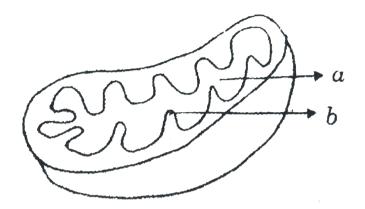
Watch Video Solution

77. The bark of which one of the following plants is used as a condiment in food stuffs?



Watch Video Solution

Creative Questions For New Model Paper 1 Mark Questions 1. Label a and b in the given diagram





Watch Video Solution

2. In what compound, the energy released during the breakdown of glucose is stored?



3. Fermented idli, dosa produce smell. Name the microorganism responsible for producing such smell.



Watch Video Solution

4. What are the end products of Aerobic and Anaerobic Respirations?



5. In which organisms, blood does not supply the Oxygen?



Watch Video Solution

6. Name the food material on which trypsin acts and name the end products



7. Name chemical substance produced in human muscles during Anaerobic respiration .



Watch Video Solution

8. Why Diazene Green solution is added to the Glucose solution in anaerobic respiration experiment?



9. Can we say that combustion and respiration are almost same actions. What evidences do you have for this ?



Watch Video Solution

10. What is the role of epiglottis and diaphragm in respiration?



11. What is the pathway of air from nostril to alveolus?



Watch Video Solution

12. What is respiration?



Watch Video Solution

13. What does the respiration mean?



14. Who did comprehensive work on properties of gases , their exchange and respiration?



Watch Video Solution

15. What was the gas liberated on heating powdered charcoal in a bell jar?



16. What was produced by combustion according to Lavoisier?



Watch Video Solution

17. What is vitiated air?



Watch Video Solution

18. Who was the renowned chemist? Who wrote a textbook of Human Physiology?





19. What happens when air passes through nasal cavities?



Watch Video Solution

20. What is the function of epiglottis?



21. Where does gaseous exchange take place in lungs?



22. What is breathing?



23. What is inspiration or inhalation?



24. What is expiration or exhalation?



Watch Video Solution

25. What are pleura?



Watch Video Solution

26. What is cellular respiration?



27. What is aerobic respiration?



Watch Video Solution

28. What is anaerobic respiration?



Watch Video Solution

29. What does aerobic respiration occur in eukaryotic cells ?



30. What is Glycolysis?



Watch Video Solution

31. What is the fate of pyruvate in the absence of oxygen in plants?



32. What is the fate of pyruvate in the absence of oxygen in animals ?



Watch Video Solution

33. In aerobic respiration pyruvate is converted into?



34. What is the main reason for feeling pain in muscles after strenuous exercise ?



Watch Video Solution

35. What is fermentation?



Watch Video Solution

36. By which process ethanol can be separated from yeast glucose mixture ?



37. What is combustion?



Watch Video Solution

38. In which organisms does exchange of gases take place through diffusion?



39. In tracheal, respiratory system which carry air directly to the cells in the tissues ?



Watch Video Solution

40. What is cutaneous respiration?



Watch Video Solution

41. What are the other areas on the plant body through which gaseous exchange takes place?



42. What is the full form of ATP? How is it formed?



43. What is the use of ATP?



44. What are the factors that control respiration?



Watch Video Solution

45. What are the substances that are used for the production of energy in all living organisms?



- **46.** How many types of respiration are present
- ? What are they?



47. Where is energy stored in ATP?



Watch Video Solution

48. What is the main differences between respiration and combustion ?



49. Name the type of respiration in which the end products are (a) C_2H_5OH and CO_2 , (b) CO_2 and H_2O , (c) Lactic acid



50. What is the equation that represents respiration?



51. What are the sites of cellular respiration?



Watch Video Solution

52. What are cristae in mitochondria?



Watch Video Solution

53. What is the net gain of ATP molecules in Glucolysis?



Watch Video Solution

54. What are the number of ATP molecules produced when one glucose molecule is completely oxidised ?



55. What are the three stages present in complete oxidation of glucose molecule?



56. Why does oxidation of fatty acids give more energy?



Watch Video Solution

57. What is meant by aquatic animals and terrestrial animals ?



58. Why is the rate of breathing in aquatic organisms such faster than terrestrial organisms?



Watch Video Solution

59. Which part of roots is involved in the exchange of respiratory gases?



60. Name the areas in a woody stem through which respiratory exchange of gases takes place.



Watch Video Solution

61. Out of photosynthesis and respiration in plants which process occurs all the time and only at daytime ?



62. What is the average breathing rate in an adult man at rest?



Watch Video Solution

63. How the trachea is prevented from collapsing?



64. What has raised the percentage of carbon dioxide in exhaled air?



Watch Video Solution

65. What are the reasons for the animals to develop different types of respiratory organs?



66. Why do fishes die when taken out of water ?



67. What would be the consequences of deficiency of haemoglobin in our bodies ?



68. What is the composition of inhaled air?



69. What is the composition of exhaled air ?



Watch Video Solution

70. Why does the amount of nitrogen not vary between exhaled and inhaled air ?



71. In which kind of respiration is more energy released?



Watch Video Solution

72. What are lenticels?



Watch Video Solution

73. How does diaphragm help in inhalation?



74. "If there were no algae, there would be no fish in the sea." Comment.



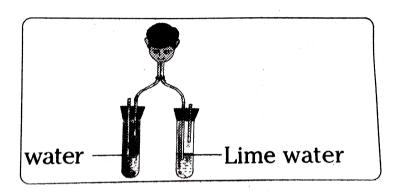
Watch Video Solution

Creative Questions For New Model Paper 2 Mark Questions

1. Which gas turns lime water milky?



2. Which gas do you think might be present in less quantities in the air we breath out as compared to air around us?





3. Balu said that , "Plants perform Photosynthesis during day time. They respire

during night time ".

Do you agree with Balu? Why? Why not?



Watch Video Solution

4. The sports man who participated in 100 mtr. Race get more muscle pains. But the sports man who participates in 5 km's race get less muscle pains. What is the reason?

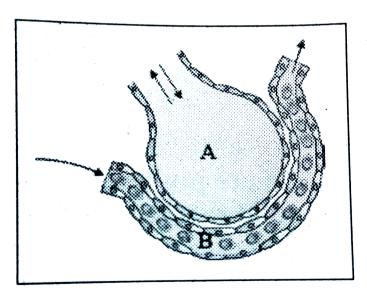


5. What happens if there is no epiglottis in human beings?



Watch Video Solution

6. Observe the diagram.

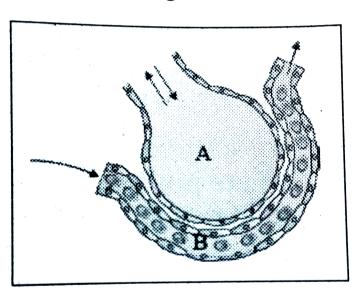


This picture is related to which biosystem?



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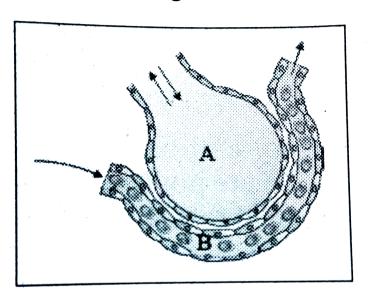
7. Observe the diagram.



Write the names of the parts of A,B



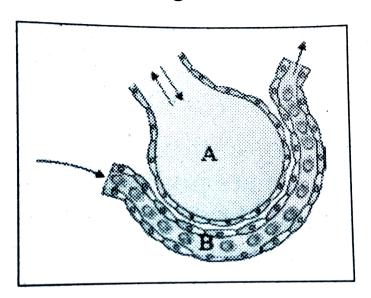
8. Observe the diagram.



To which system they are linked with?



9. Observe the diagram.



Which process is happening here? What happens as a result of it?



10. A person reached a specific distance once on foot and once by running . In which situation his legs pain ? Why



Watch Video Solution

11. What is the advantage of the wet and warm passage of air from the nostrils to capillaries?



12. What is fermentation ? Why anaerobic respiration should not be used as synonym of fermentation ?



Watch Video Solution

13. See the below table . Write what you know from it .

Gas	% in inhaled air	% in exhaled air
Oxygen	21	16
Carbon dioxide	0.03	4.4
Nitrogen	78	78



14. How does the respiration in amoeba and hydra occur through diffusion ?



Watch Video Solution

15. Describe the process of respiration in Amoeba. State whether it is anaerobic respiration or aerobic respiration.



16. What are different ways in which glucose is oxidised to provide energy in various organisms?



Watch Video Solution

17. How does respiration in plants differ from that in animals ?



18. In human respiratory system different stages are there beginning with nostril to gaseous exchange between blood and cell. Which of these stages do you think is amazing? Why do you think so?



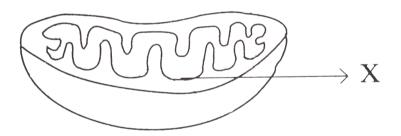
Watch Video Solution

19. After learning this lesson, what precautions will you take to protect your lungs?



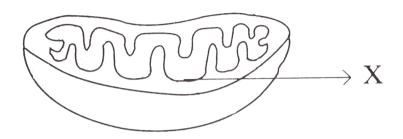
Creative Questions For New Model Paper 4 Mark Questions

1. Observe the diagram and answer the following question.



What does the given diagram indicate?

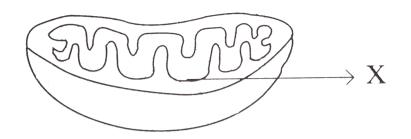




What is the part 'x' in the diagram?



3. Observe the diagram and answer the following question.

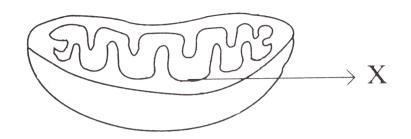


What is the function of the given picture?



Watch Video Solution

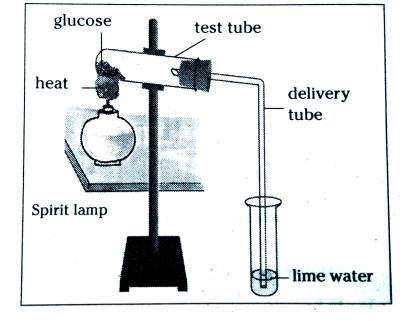
4. Observe the diagram and answer the following question.



To which system the given picture belongs to?

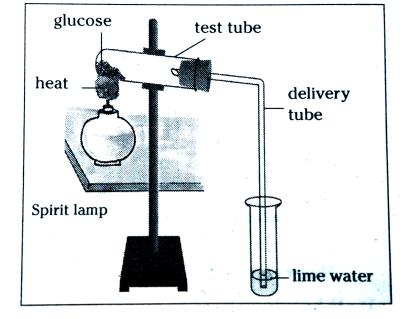


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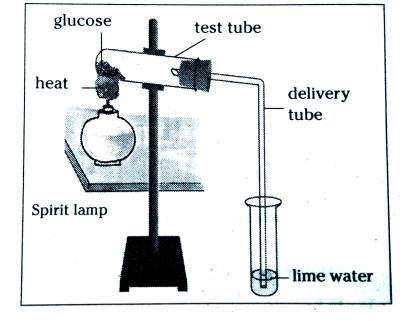
Which process do we know with the help of this experiment?





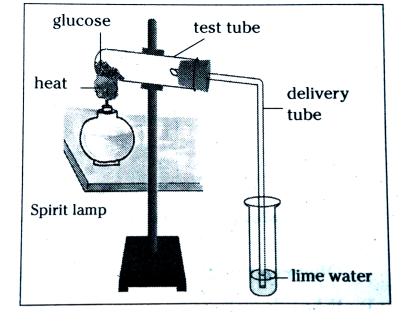
How does this process differ with respiration?





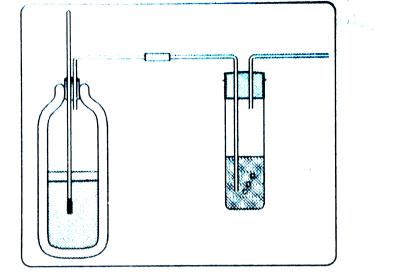
What are the similarities between this process and respiration ?





Which gas turns lime-water milky?

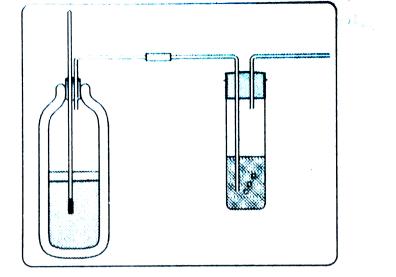




What is the aim of the experiment?

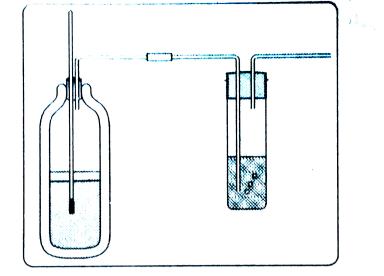


Watch Video Solution



How does the process differ with respiration?

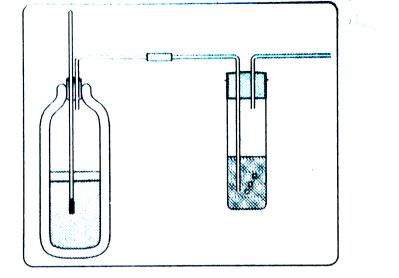




What are the similarities between this process and respiration ?



Watch Video Solution



Which gas turns lime-water milky?



Watch Video Solution

What is the aim of the experiment?





14. Look at the following experiment . Answer the questions.



Which agent is used to find the presence of oxygen? What changes do you observe when oxygen is present in Glucose solution?



15. Look at the following experiment . Answer the questions.



Why liquid paraffin is poured on Glucose solution?



View Text Solution



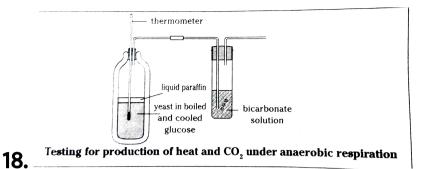
Which gas released during the experiment?

How can you prove it?



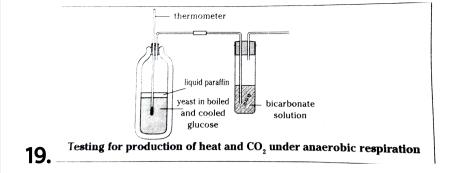
17. Write about respiration in mangroves that grow in marshy lands.





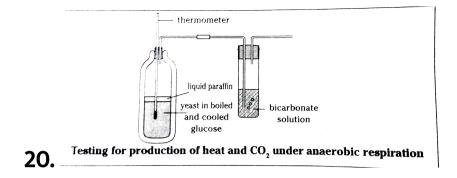
What does the above setting (diagram) indicate?





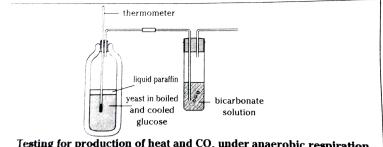
Why boiled and cooled glucose is covered with paraffin ?





What is the use of adding diazine green to glucose solution? What change you notice in glucose solution?





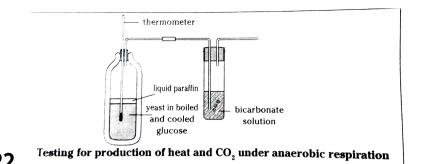
Testing for production of heat and CO₂ under anaerobic respiration

Observe the above diagram and answer the following questions:

Why the lime water is used in this experiment

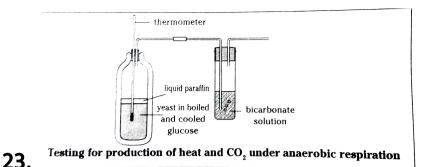
?





Why is bulb of thermometer dipped in the glucose water





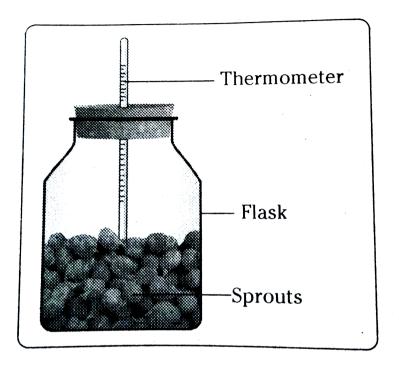
Why is bulb of thermometer dipped in the glucose water



24. Explain with the help of a flow chart, the path way of air in humans .

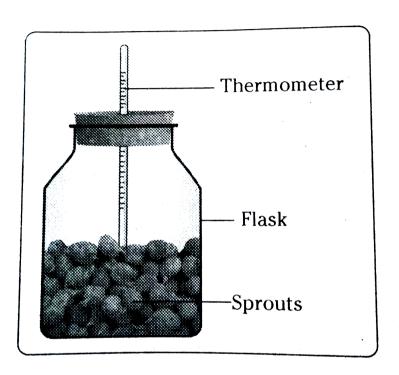


25. What is the aim of this experiment?





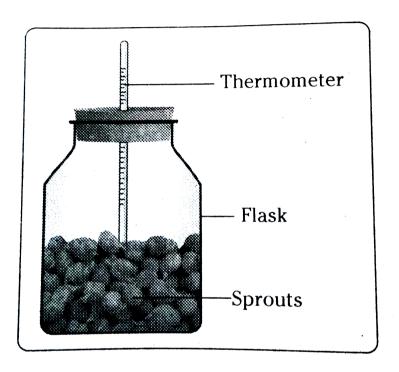
26. What change do you observe in thermometer readings ?





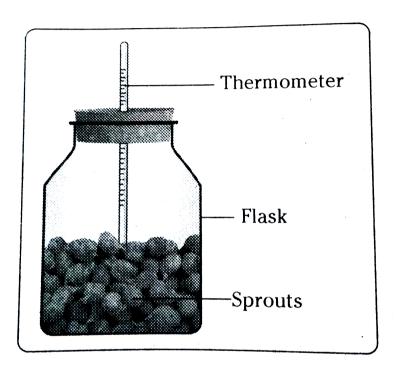
27. In your opinion, where did this heat come

from?

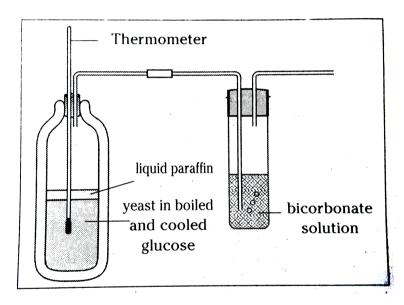




28. What precaution should we take , while doing this experiment ?



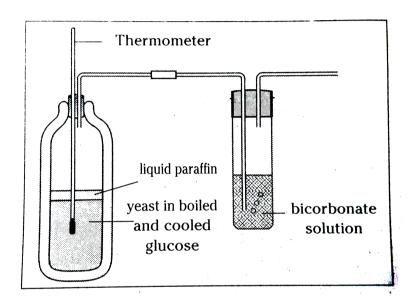




What do

you prove by conducting this experiment?

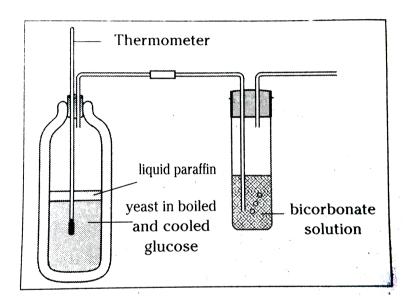




Why do

you heat glucose solution?

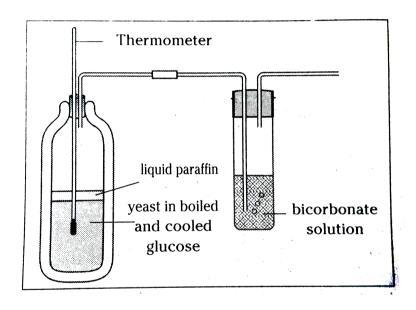




How do

you confirm that glucose solution is free from oxygen after heating it ?



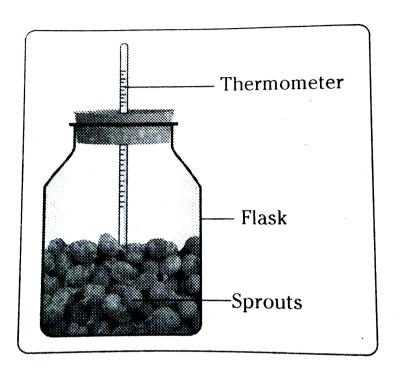


What

are the changes you notice in the lime water?



33. What change do you observe in thermometer readings?





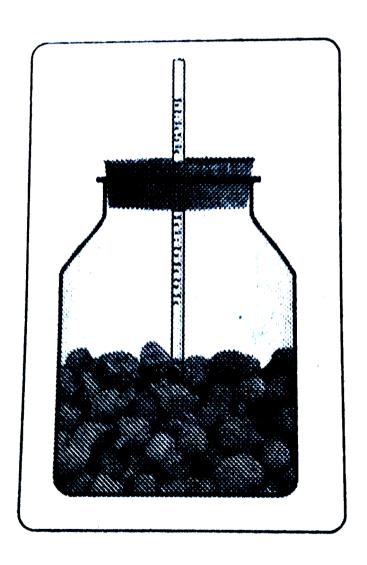
34. What change did you observe in the thermometer in the given experiment?



Where does the heat come from?



35. What change did you observe in the thermometer in the given experiment?



What result you will get , if you perform this experiment with dry seeds ?



Watch Video Solution

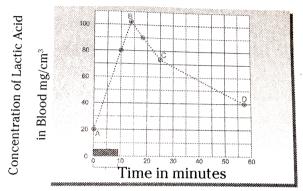
36. What change did you observe in the thermometer in the given experiment?



What are the apparatus used in this experiment?



37. Observe the following graph and answer the questions given below .

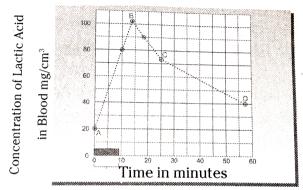


Graph showing effects of vigorous excercise on the concentration of lactic acid in blood.

What was the concentration of lactic acid in the blood to start with ?



38. Observe the following graph and answer the questions given below .

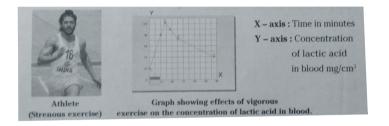


Graph showing effects of vigorous excercise on the concentration of lactic acid in blood.

In which state lactic acid concentration is more?



39. Study the graph given below and analyse the reasons for accumulation of lactic acid in blood after strenuous exercise.

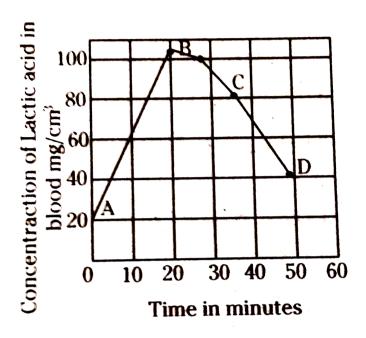




40. Study the graph and answer the following questions:

Graph showing effects of vigorous exercise on

the concentration of lactic acid in blood.



What is the relationship between lactic acid and muscle pain ?



41. Describe the structure of mitochondria with the help of a diagram.



Watch Video Solution

42. Which cell organelle is called energy currency or power house of cell ?



43. What do you know about the organelle that performs the cellular respiration?



Watch Video Solution

44. Why does the exchange of gases happen only in alveoli, though arteries are present in pharynx, trachea and bronchus?



45. Describe how oxygen enters the blood in lungs with the help of a block diagram.



Watch Video Solution

46. How does gaseous exchange occur in lungs

?



47. What is the role of diaphragm and ribs in respiration? Are both active in man and woman?



Watch Video Solution

48. Is respiration possible without diaphragm and ribs in human? Explain.



- 49. Identify the mismatched pair.
- 1) WBC \rightarrow Oxygen transportation
- 2) RBC \rightarrow Microscopic policeman
- 3) Platelets \rightarrow Blood coagulation.



Watch Video Solution

50. What are different ways in which glucose is oxidised to provide energy in various organisms?



51. Write the adaptations seen in plants living in water logged conditions.



Watch Video Solution

52. Write a brief note on respiration in plants.



53. How do you appreciate the mechanism of respiration in our body?



Watch Video Solution

54. Write a brief note on tracheal respiration in insects .



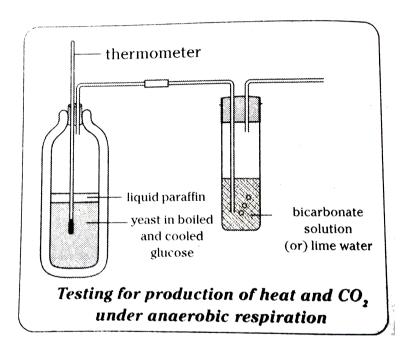
55. Explain the evolutionary changes in energy releasing system.



Watch Video Solution

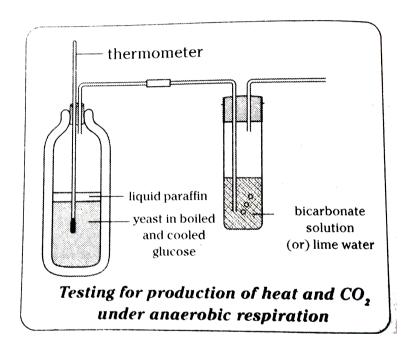
56. Describe the structure of human lungs with the help of a diagram



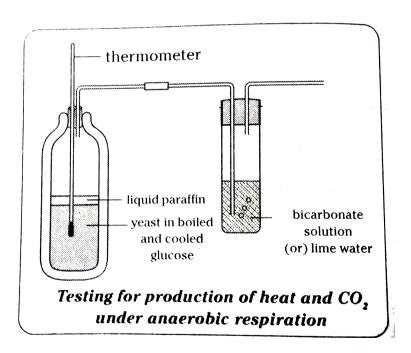


Why did he pour paraffin on glucose solution?

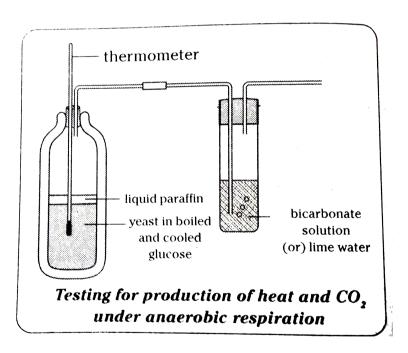




Why did he add diazine green (Janus Green) to the glucose solution before additing paraffin wax?

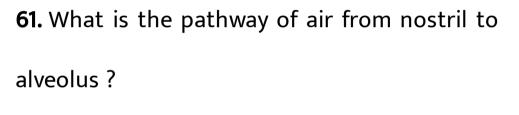


What did he do to speed up the test?



What are the observations he made during the experiment?

Watch Video Solution

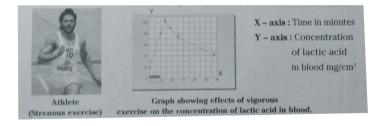




62. What are the green house gases?



63. Study the graph given below and analyse the reasons for accumulation of lactic acid in blood after strenuous exercise.





64. Observe following table and answer the questions given below .

Gas	% in inhaled air	% in exhaled air
Oxygen	21	16
Carbon dioxide	0.03	4.4
Nitrogen	78	78

Why does the amount of oxygen vary between exhaled and inhaled air ?



Watch Video Solution

65. Observe following table and answer the questions given below .

Gas	% in inhaled air	% in exhaled air
()xygen	21	16
Carbon dioxide	0.03	4.4
Nitrogen	78	78

Why does exhaled air contain more carbon dioxide?



Watch Video Solution

66. Observe following table and answer the questions given below .

Gas	% in inhaled air	% in exhaled air
()xiv.gen	21	16
Carbon dioxide	0.03	4.4
Nitrogen	78	78

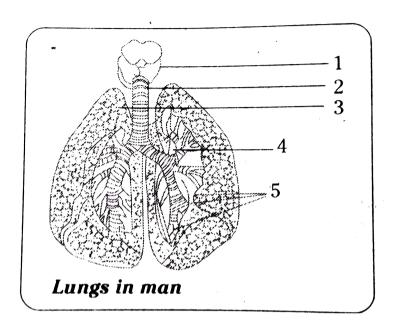
Why there is no change in Nitrogen percentage in exhaled and inhaled air?



67. Draw a neat labelled diagram of power house of a cell. What is the function of inner membrane?



68. Label the parts for given diagram.





69. Draw a neat diagram to explain the exchange of gases at blood level and label the

parts.



Watch Video Solution

Exercise

1. Distinguish between Inspiration and Expiration



2. Distinguish between Aerobic and Anaerobic respiration



Watch Video Solution

3. Distinguish between Respiration and Combustion



4. Distinguish between Photosynthesis and Respiration



Watch Video Solution

5. State two similarities between aerobic and anaerobic respiration.



6. Food sometimes enters the wind pipe and causes choking. How does it happen?



Watch Video Solution

7. Why does the rate of breathing increase while walking uphill at a normal pace in the mountains? Give two reasons.



8. "Air leaves the tiny sacs in the lungs to pass into capillaries." What modification is needed in the statement?



Watch Video Solution

9. Balu said that , "Plants perform Photosynthesis during day time. They respire during night time ".

Do you agree with Balu? Why? Why not?



10. Why does a deep sea diver carry oxygen cylinder on his/her back?



Watch Video Solution

11. How are alveoli designed to maximise the exchange of gases ?



12. Where will the release of energy from the glucose in respiration take place '? Mala writes lungs, while Jiya writes muscles. Who is correct and why?



Watch Video Solution

13. What is the role of epiglottis and diaphragm in respiration?



14. How does gaseous exchange take place at blood level ?



Watch Video Solution

15. Explain the mechanism of gaseous exchange at bronchiole level.



16. After a vigorous exercise or work we feel pain In muscles. What is the relationship between pain and respiration



Watch Video Solution

17. Raju said , " Stems also respire along with leaves in plants ". Can you support this statement? Give your reasons



18. What will happen, if there is no diaphragm in the human body?



Watch Video Solution

19. if you have a chance to meet pulmonologist , what questions are you going to ask about pulmonary respiration ?



20. What procedure do you follow to understand anaerobic respiration in your school laboratory?



Watch Video Solution

21. What are your observations in combustion of sugar activity?



22. Collect information about cutaneous respiration in frog. Prepare a note and explain them in your classroom.



Watch Video Solution

23. Collect information about respiratory diseases (because of pollution, tobacco) and discuss with your classmates.



24. What is the pathway taken by air in the respiratory system? Illustrate with a labeled diagram.



Watch Video Solution

25. Draw a block diagram showing events in respiration . Write what you understood about cellular respiration :



26. How do you appreciate the mechanism of respiration in our body?



Watch Video Solution

27. Prepare an article on anaerobic respiration to present school symposium



28. Prepare a cartoon on discussion between haemoglobin and chlorophyll about

respiration. Watch Video Solution **29.** Exhaled air contains and Watch Video Solution **30.** A flap like muscular valve controls movement of air and food is Watch Video Solution

31. Energy currency of the cell is called					
Watch Video Solution					
32. Lenticels are the respiratory organs that exist in part of the plant. Watch Video Solution					
Water video soldtion					
33. Mangrove trees respire with their					
Watch Video Solution					

34. We will find vocal cords in

- A. Larynx
- B. Pharynx
- C. Nasal cavity
- D. Trachea

Answer:



35. Cluster of air sacs	in lu	ungs a	are	called
-------------------------	-------	--------	-----	--------

- A. Alveoll
- B. Bronchi
- C. Bronchioles
- D. Air spaces

Answer:



- **36.** Which of the following is correct?
- (i)The diaphragm contracts volume of chest cavity increased
- (ii)The diaphragm contracts volume of chest cavity decreased
- (iii)The diaphragm expands volume of chest cavity Increased
- (iv)The diaphragm expands volume of chest cavity decreased
 - A. i
 - B. I and ii

C. ii and iii

D. iv

Answer:



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37. Respiration is a catabolic process because of

A. Breakdown of complex food molecules

B. Conversion of light energy

- C. Synthesis of chemical energy
- D. Energy storage

Answer:



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38. Energy is stored in

- A. Nucleus
- B. Mitochondria
- C. Ribosomes

D. Cell wall

Answer:



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39. What happens if there is no epiglottis in human beings?



40. Swallowing and breathing will not take place at once. How can you prove with simple activity?



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41. Write an experiment to illustrate the conduction of sugars by phloem.



42. How you can prove that carbondioxide is essential for plants?



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43. How do you infer the presence of CO_2 in respiration experiments ?



44. How can we show that heat is liberated during respiration



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45. Explain the procedure you have adopted in your school to prove that heat is liberated during respiration. What result we will get, if you perform this experiment with dry seeds.



46. Heat is evolved during respiration. How can you prove it?



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47. What gas was produced by combustion according to Lavoisier?



48. What didi Lavoisier find out about air from the experiments ?



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49. What conclusion can be drawn from Lavoisier's experiments?



50. Which gas do you think is Lavoisier talking about when he says chalky acid gas ?



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51. Which gas according to Lavoisier is respirable air ?



52. It is a common observation that our breath is warmer than the air around us, does respiration have anything to do with this?



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53. What does this experiment indicate?



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54. Which gas turns lime water milky?

55. Which gas to do think might be present in greater quantities ?



56. We are also aware of the fact that water vapour deposits on a mirror if we breathe out on it, where does this water vapour come from in Exhaled air?



57. Why are we advised not to talk while eating food?



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58. What can be concluded from this?



59. What happens during the process of breathing?



Watch Video Solution

60. Which gas needs to be removed from our body during exhalation? Where does the extra amount of gas come from ?



61. What is the composition of inhaled air?



62. When exhaled air is compared with inhaled air, is there any difference in composition?



63. Why does the amount of oxygen vary between exhaled and inhaled air?



64. What has raised the percentage of carbon dioxide in exhaled air?



Watch Video Solution

65. After undergoing strenuous exercise we feel pain in muscles, does adequate oxygen reach the muscles?



66. What is being formed in the muscles?



Watch Video Solution

67. In which set does the colour change faster

? Why?



68. Can it be said that Priestly's experiment helped us to find out more about composition of air ? How ?



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69. What steps in the process of respiration does Lavoisier mention ?



70. What is the role of diaphragm and ribs in respiration? Are both active in man and woman?



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71. Do cells of alveoli or lungs also require oxygen to carry out cellular respiration? Why / Why not?



72. What will happen if the respiratory tract is not moist?



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73. Are both lungs similar in size?



Watch Video Solution

74. Why are alveoli so smell and uncountable in number ?



Watch Video Solution

75. Fermented idli, dosa produce smell. Name the microorganism responsible for producing such smell.



Watch Video Solution

76. In what compound, the energy released during the breakdown of glucose is stored?



77. Name chemical substance produced in human muscles during Anaerobic respiration .



Watch Video Solution

78. Why Diazene Green solution is added to the Glucose solution in anaerobic respiration experiment?



79. Name the food material on which trypsin acts and name the end products



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80. Respiration is energy producing process in the organisms . It takes place both in the presence and absence of oxygen. Laxmi said there are some differences between the two processes . How do you support her ?



81. What happens if there is no epiglottis in human beings?



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82. State two similarities between aerobic and anaerobic respiration.



83. Explain with the help of a flow chart, the path way of air in humans .



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84. How many molecules of inorganic phosphate are released in Calvin cycle in formation of one glucose ?



85. What is anaerobic respiration?



Watch Video Solution

86. What are the end products of Aerobic and Anaerobic Respirations?



Watch Video Solution

87. Name chemical substance produced in human muscles during Anaerobic respiration.



88. Can we say that combustion and respiration are almost same actions. What evidences do you have for this?



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89. What is the function of epiglottis?



90. What is the pathway of air from nostril to alveolus?



Watch Video Solution

91. What is respiration?



Watch Video Solution

92. What does the respiration mean?



93. Who did comprehensive work on properties of gases , their exchange and respiration?



Watch Video Solution

94. What was the gas liberated on heating powdered charcoal in a bell jar?



95. What was produced by combustion according to Lavoisier?

Watch Video Solution



96. What is vitiated air?

97. Which gas according to Lavoisier is respirable air ?



98. Who was the renowned chemist? Who wrote a textbook of Human Physiology?



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99. What happens when air passes through nasal cavities?



100. What is the function of epiglottis?



101. Where does gaseous exchange take place in lungs ?



102. What is breathing?



103. What is inspiration or inhalation?



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104. What is expiration or exhalation?



Watch Video Solution

105. What are pleura?



106. What is cellular respiration?



Watch Video Solution

107. What is aerobic respiration?



Watch Video Solution

108. What is anaerobic respiration?



109. What does aerobic respiration occur in eukaryotic cells ?



Watch Video Solution

110. What is Glycolysis?



111. What is the fate of pyruvate in the absence of oxygen in plants ?



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112. What is the fate of pyruvate in the absence of oxygen in animals?



113. In aerobic respiration pyruvate is converted into?



114. What is the main reason for feeling pain in muscles after strenuous exercise?



115. What is fermentation?



116. By which process ethanol can be separated from yeast glucose mixture?



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117. What is combustion?



118. In which organisms does exchange of gases take place through diffusion ?



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119. In tracheal, respiratory system which carry air directly to the cells in the tissues ?



120. What are the respiratory organs of Dolphins?



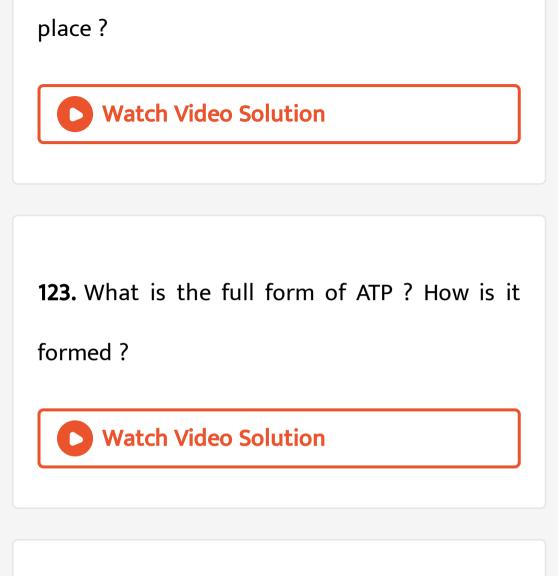
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121. What is cutaneous respiration?



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122. What are the other areas on the plant body through which gaseous exchange takes





124. What is the use of ATP?

125. What are the factors that control respiration?



Watch Video Solution

126. What are the substances that are used for the production of energy in all living organisms?



127. How many types of respiration are present ? What are they?



128. Where is energy stored in ATP?



129. What is "the power house of the cell "?



130. What is the main differences between respiration and combustion?



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131. What are the end products of aerobic respiration?



132. What is the equation that represents respiration?



133. What are the sites of cellular respiration?



134. What are cristae in mitochondria?



135. What is the net gain of ATP molecules in Glucolysis?



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136. What are the number of ATP molecules produced when one glucose molecule is completely oxidised?



137. What are the three stages present in complete oxidation of glucose molecule?



Watch Video Solution

138. Why does oxidation of fatty acids give more energy?



139. What is meant by aquatic animals and terrestrial animals?



Watch Video Solution

140. Why is the rate of breathing in aquatic organisms such faster than terrestrial organisms?



141. Which part of roots is involved in the exchange of respiratory gases?



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142. Name the areas in a woody stem through which respiratory exchange of gases takes place.



143. Out of photosynthesis and respiration in plants which process occurs all the time and only at daytime ?



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144. Trachea divides into bronchi at the level of



145. What is the average breathing rate in an adult man at rest?



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146. How the trachea is prevented from collapsing?



147. What has raised the percentage of carbon dioxide in exhaled air?



Watch Video Solution

148. What are the reasons for the animals to develop different types of respiratory organs?



149. Why do fishes die when taken out of water ?



Watch Video Solution

150. What would be the consequences of deficiency of haemoglobin in our bodies ?



151. Which gas do you think is Lavoisier talking about when he says chalky acid gas?



Watch Video Solution

152. What is the composition of inhaled air?



Watch Video Solution

153. What is the composition of exhaled air?



154. Why does the amount of nitrogen not vary between exhaled and inhaled air ?



Watch Video Solution

155. In which kind of respiration is more energy released ?



156. Which gases are exchanged in your lungs



?

Watch Video Solution

157. The parts that help in respiration of plants

stomata

Lenticels

Pneumatophores

Bark



158. What are lenticels?



Watch Video Solution

159. How does diaphragm help in inhalation?



Watch Video Solution

160. Name the type of respiration in which the end products are (a) C_2H_5OH and CO_2 , (b)

 CO_2 and H_2O , (c) Lactic acid



Watch Video Solution

161. Name the type of respiration in which the end products are (a) C_2H_5OH and CO_2 , (b) CO_2 and H_2O , (c) Lactic acid



Watch Video Solution

162. Name the type of respiration in which the end products are (a) C_2H_5OH and CO_2 , (b)

 CO_2 and H_2O , (c) Lactic acid



163. "If there were no algae, there would be no fish in the sea." Comment.



164. A person reached a specific distance once on foot and once by running . In which situation his legs pain ? Why



165. What is the advantage of the wet and warm passage of air from the nostrils to capillaries?



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166. In the experiment of anaerobic respiration with yeast

Why was liquid paraffin poured on glucose?

167. In the experiment of anaerobic respiration with yeast

What did you understood about anaerobic respiration?



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168. See the below table . Write what you know from it .

Gas	% in inhaled air	% in exhaled air
Oxygen	21	16
Carbon dioxide	0.03	4.4
Nitrogen	78	78



169. How does the respiration in amoeba and hydra occur through diffusion ?



170. What is the process through which respiration takes place in Amoeba and hydra?



171. What are different ways in which glucose is oxidised to provide energy in various organisms?



172. How does respiration in plants differ from that in animals ?



173. Write about respiration in mangroves that grow in marshy lands.



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174. Describe the structure of mitochondria with the help of a diagram.



175. Which cell organelle is called energy currency or power house of cell ?



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176. Why does the exchange of gases happen only in alveoli, though arteries are present in pharynx, trachea and bronchus?



177. Describe the structure of human lungs with the help of a diagram



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178. How does gaseous exchange occur in lungs?



179. What is the role of diaphragm and ribs in respiration? Are both active in man and woman?



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180. Is respiration possible without diaphragm and ribs in human? Explain.



181. I am a red coloured pigment present in the blood . I help in the transportation of gases . Who am I?



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182. What are different ways in which glucose is oxidised to provide energy in various organisms?



183. Write a brief note on respiration in plants.



184. Write the adaptations seen in plants living in water logged conditions.



185. Write a brief note on tracheal respiration in insects .



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186. How do you appreciate the mechanism of respiration in our body?



187. Explain the evolutionary changes in energy releasing system.



188. Describe the structure of human lungs with the help of a diagram



189. What is the definition given by Lavoisier for the 'element'?



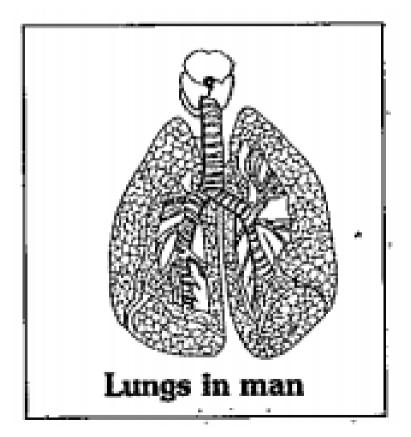
190. Draw a neat labelled diagram of power house of a cell. What is the function of inner

membrane?



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191. Label the parts for given diagram.





192. A student conducted an experiment in which he proved CO_2 evolved in respiration of sprouts. Draw diagram of apparatus arrangement and label parts.



193. In human respiratory system different stages are there beginning with nostril to

gaseous exchange between blood and cell.

Which of these stages do you think is amazing

? Why do you think so ?



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194. After learning this lesson, what precautions will you take to protect your lungs ?



195. In which process food is broken down for release of energy?

- A. Photosynthesis
- B. Respiration
- C. Excretion
- D. Circulation

Answer:



196. From which language the word respiration came ?

A. English

B. Greek

C. Latin

D. French

Answer:



197. What was the gas liberated on heating powdered charcoal in a bell jar?

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

Answer:



198. What gas is needed for combustion of substances?

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

Answer:



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

- A. Water
- B. Lime water
- C. Sodium Hydroxide
- D. Sugar solution

Answer:



200. In an annual plant, exchange of gases takes place mainly through

- A. Bronchioles
- B. Alveoli
- C. Bronchus
- D. Pleura

Answer:



201. Air is filtered in this part of respiratory system.

- A. Nose
- B. Pharynx
- C. Larynx
- D. Nasal cavities

Answer:



202. Name the muscular valve in the pharynx controls movement of air and food towards their respective passages .

- A. Oesophagus
- B. Palate
- C. Glottis
- D. Epiglottis

Answer:



203. From where do the single celled organisms get oxygen ?

- A. Air
- B. Soil
- C. Water
- D. Both air and water

Answer:



204. Vocal cords are present in this part of respiration system

- A. Pharynx
- B. Larynx
- C. Bronchus
- D. Lungs

Answer:



A. Wind pipe						
B. Sound box						
C. Vocal cords						
D. Septum						
Answer:						
Watch Video Solution						

206. Cluster of air sacs in lungs are called

205. Trachea are found in

- A. $60m^2$
- B. $160m^2$
- $\mathsf{C.80}m^2$
- D. $100m^2$



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207. Name the structure that plays important role in respiratory movements.

- A. Rib cage
- B. Diaphragm
- C. Epiglottis
- D. Oesophagus



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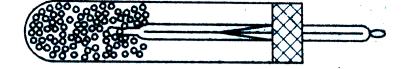
208. What is the percentage of oxygen in the exhaled air?

- A. 21
- B. 16
- C. 79
- D. 14



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209. The following alternative apparatus arrangement is to prove ____



- A. CO_2 is evolved in respiration
- B. O_2 is released in respiration
- $C.\ CO_2$ is released in respiration
- D. Heat is released in respiration



210. Name the oxygen carrying pigment in blood

- A. Haemoglobin
- B. Prothrombin
- C. Fibrinogen
- D. All

Answer:



211. Cellular respiration

- A. Mitochondria
- B. Cytoplasm
- C. Both Mitochondria and Cytoplasm
- D. Cell membrane

Answer:



212. What are the number of ATP molecules produced when one glucose molecule is completely oxidised ?

- A. 7600 calories
- B. 7800 calories
- C. 7200 calories
- D. 7500 calories

Answer:



213. Name the first stage in the oxidation of glucose molecule.

- A. Krebs cycle
- B. Calvin cycle
- C. Electron transport
- D. Glycolysis

Answer:



214. Accumulation of this results in muscular pain

- A. Citric acid
- B. Nitric acid
- C. Lactic acid
- D. Hydrochloric acid

Answer:



215. The volume of the dough increased in bread preparation due to

- A. Diffusion
- **B.** Fermentation
- C. Distillation
- D. Evaporation

Answer:



216. Identify the correct path in Human respiratory system.

A. 1.Cellular respiration ightarrow Gaseous exchange at tissue level ightarrow Gaseous transport by blood ightarrow Gaseous exchange at lungs ightarrow Breathing

B. 2.Breathing \to Exchange of gases at lungs \to Gas transport by blood \to Gaseous exchange at tissue llevel \to Cellular respiration

C. 3.Exchange of gases at lungs \rightarrow

Breathing ightarrow Gas transport by blood

ightarrow Cellular respiration ightarrow Exchange of

gases in lungs

D. 4.Gas transport by blood \rightarrow Exchange

of gases in lungs ightarrow Breathing ightarrow

Cellular respiration \rightarrow Exchange of

gases at tissue level

Answer:



217. The intermediate product formed when

 NH_3 is prepared form urea is

- A. Combustion
- B. Respiration and Combustion
- C. Respiration
- D. Heating charcoal powder

Answer:



218. What are the respiratory organs of Cockroach?

A. Blood vessels

B. Mucous glands

C. Gills

D. Trachea

Answer:



219. Ho	ow	does	the	respira	tion	in	amoeba	and
hydra	occ	ur th	roug	h diffu	sion	?		

- A. Transpiration
- **B.** Osmosis
- C. Diffusion
- D. Inhalation



220. What is cutaneous respiration?

- A. Frog
- B. Earthworm
- C. Leech
- D. All

Answer:



221. What are the reasons for the animals to develop different types of respiratory organs?

- A. Body size, habitat in which they live
- B. Availability of water
- C. Type of circulatory system
- D. All the above

Answer:



222. Four pairs of gills covered with operculum

is seen in

- A. Terrestrial respiration
- B. Aquatic respiration
- C. Pulmonary respiration
- D. All types of respiration

Answer:



223. Pulmonary respiration occurs through

- A. Skin
- B. Lungs
- C. Tracheal
- D. Bronchus

Answer:



224. Haemoglobin is a

- A. Oxygen only
- B. Carbon dioxide only
- C. Both oxygen and carbon dioxide
- D. Nitrogen only

Answer:



225. In an annual plant, exchange of gases takes place mainly through

- A. Stomata
- B. Surface of roots
- C. Lenticels on stem
- D. All the above

Answer:



226. Breathing roots are present in

- A. Aquatic plants
- B. Mangrove plants
- C. Terrestrial plants
- D. Desert plants

Answer:



227. What are the end products of aerobic respiration?

- A. CO_2
- $\mathsf{B}.\,H_2\mathsf{O}$
- C. Energy
- D. All the above

Answer:



228. During daytime the rate of this process	is
usually higher than respiration	

- A. Photosynthesis
- B. Transport
- C. Nutrition
- D. Circulation



229. Name the structure that plays important role in respiratory movements.

- A. Epiglottis
- **B. Sinus venosus**
- C. Monocyte
- D. Diaphragm

Answer:



230. The number of lobes in the right and left

lung of man respectively are

- A. 2
- B. 3
- C. 4
- D. 5

Answer:



- **231.** From Nasal cavity the air goes into pharynx After pharynx the track is divided into passage Those are
- (1) Stomach, duodenum
- (2) Trachea, digestive canal
- (3) Larynx, Epiglottis
 - A. A part of Trachea
 - B. A part of lungs
 - C. An upper part of Trachea
 - D. A part of Bronchiole



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232. Which of the following is the correct sequence of air passage during in-halation?

A. Nostrils $\;
ightarrow\;$ Larynx $\;
ightarrow\;$ Pharynx $ightarrow\;$

Trachea \rightarrow Alveoli

B. Nasal passage $\,\,
ightarrow\,$ Trachea $\,\,
ightarrow\,$ Pharynx

ightarrow Larynx ightarrow Alveoli

C. Nasal passage ightarrow Trachea ightarrow Pharynx

ightarrow Larynx ightarrow Alveoli

D. Nostrils $\;
ightarrow\;$ Pharynx $\;
ightarrow\;$ Larynx $\;
ightarrow\;$

Trachea ightarrow Alveoli

Answer:



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233. Energy currency of the cell is

A. ATP

B. DDT

C. DTP

D. ADP

Answer:



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234. In cockroaches air enters the body through

A. Lungs

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



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235. Which of the following is most likely to have higher breathing rate?

A. Dog

B. Cat
C. Buffalo
D. Man
Answer:
Watch Video Solution
236. Exhaled air contains and
A. Carbon dioxide
$B.H_2O$

C. Nitrogen

D. CO_2, H_2O

Answer:



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237. A flap like muscular valve controls movement of air and food is ____

A. Glottis

B. Palate

- C. Epiglottis
- D. Larynx



Watch Video Solution

238. Lenticels are the respiratory organs that exist in ___ part of the plant.

- A. Young
- B. Soft

D. None

Answer:



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239. Mangrove trees respire with their _____

- A. Stems
- **B.** Leaves
- C. Aerial roots

D. Roots

Answer:



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240. Cluster of air sacs in lungs are called

- A. Bronchioles
- B. Bronchus
- C. Bronchi
- D. All the above



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241. Breathing roots are present in

A. Inhaling

B. Exhaling

C. Inhaling and exhaling

D. Taking in CO_2 ,

242. Flattened muscular structure that helps the lungs in moving air into and out of them

A. Ribs

B. Diaphragm

C. Chest wall

D. Skin



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243. What occupies the space between the pleural membranes of the lungs?

A. Heart

B. Liver

C. Lungs

D. Kidney

Answer:



244. What is the percentage of CO_2 in exhaled air ?

A. 0.04

B. 4

C. 14

D. 5

Answer:



245. In a normal healthy individual, the volume of air remaining in the lungs even after forcible expiration is about

- A. 5800 ml
- B. 4600 ml
- C. 1200 ml
- D. 500 ml

Answer:



246. Heamoglobin contians an atom of

- A. Magnesium
- B. Calcium
- C. Potassium
- D. Iron

Answer:



247. What is the unstable compound formed, when oxygen combines with haemoglobin.

- A. Oxyhaemoglobin
- B. Haemo oxygen
- C. Haemogloboxide
- D. None

Answer:



248. About seven percent of carbon dioxide is transported to the lungs

- A. Carbonate
- B. Bicarbonate
- C. Haemocarbonate
- D. All the above

Answer:



249. Read the sentence, find the error and rewrite it.

At a height of 13 km, the concentration of oxygen is much lower about 1/6th at sea level.

A. Much higher than the oxygen at sea level

B. Much lower about $\frac{1}{5}$ th at sea level

C. Much lower about $\frac{1}{6}$ that sea level

D. Equal to oxygen at sea level



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250. In which plants we can observe a special tissue to produce oxygen for respiration?

- A. $\frac{1}{3}$ rd of that in the lungs
- B. $\frac{1}{4}$ th of that in the lungs
- C. $\frac{1}{5}$ th of that in the lungs
- D. $\frac{1}{2}$ of that in the lungs



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251. What are the sites of cellular respiration?

- A. Cytoplasm
- B. Mitochondria
- C. Cytoplasm, mitochondria
- D. Mitochondria, Ribosomes

252. In glycolysis , the glucose is converted into which form ?

A. Three molecules of pyruvic acid

B. Two molecules of pyruvic acid

 $C. CO_2$ and H_2O

D. CO_2 and enegry



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253. After undergoing strenuous exercise we feel pain in muscles, does adequate oxygen reach the muscles?

A. Oxygen debt

B. Co_2 , debt

C. Nitrogen debt

D. All the above

254. Wild yeasts are normally found growing on the skins of fruits like

A. Grapes

B. Apples

C. Banana

D. Grapes and apples

Answer:



255. We can remove dissolved oxygen from glucose solution by heating it for

- A. An hour
- B. A second
- C. A minute
- D. Two hours

Answer:



256. The blue dye Diazine green turns to which colour when the supply of oxygen around it is short?

A. Red

B. Pink

C. Yelow

D. Black

Answer:



257. Which gas is released when a baker prepares a dough by mixing yeast in it?

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

Answer:



258. In Alcoholic fermentation of Glucose, the net gain of $NADH_2$ is

- A. Methanol
- B. Ethanol
- C. Acetic acid
- D. Nitric acid

Answer:



259. When we preserve idly, dosa dough at our home, we will notice the smell of alcohol. Can you guess the reason for it?

- A. Fermentation
- B. Distillation
- C. Carboxylation
- D. Nitrification

Answer:



260. Ethanol and ethanal are separated from their mixture using the reagent

- A. Destructive distillation
- B. Fractional distillation
- C. Fermentation
- D. Decantation

Answer:



261. Ethanol boils at a lower temperature of......

- A. About 60° C
- B. About $65\,^{\circ}\,\mathrm{C}$
- C. About 70° C
- D. About 75° C

Answer:



262. Identify the scientist. "Respiration was a process like combustion"

- A. Joseph Priestley
- B. Jan Ingenhousz
- C. Engelman
- D. Lavoisier

Answer:



263. Read the following table answer the following questions.

ORGANISM	ORGAN	PROCESS
Amoeba / Hydra	-	Diffusion
2. Insects	Trachea	Tracheal
3. Fish	, Gills	Branchial
4. Frog	Skin	Cutaneou

Skin is the respiratory organ in which organisms?

- A. Tracheal respiration
- B. Bronchial respiration
- C. Cutaneous respiration
- D. Pulmonary respiration



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264. In plants gaseous exchange occurs through?

- A. Stomach
- B. Root
- C. Air spaces
- D. Grand cells



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265. The rate of diffusion of respiratory gases is affected by:

- A. Amoeba
- B. Hydra
- C. Planarians
- D. All the above



Watch Video Solution

266. In which plants we can observe a special tissue to produce oxygen for respiration ?

- A. Mangrove
- B. Fern
- C. Orchids
- D. Ornamental



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267. Write the adaptations seen in plants living in water logged conditions.

- A. Much larger air spaces in stems
- B. Hollow stem
- C. Much larger air spaces and hollow stem
- D. None



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268. Respiration is a catabolic process because of

- A. Anabolic process
- B. Catabolic process
- C. Fermentation process
- D. None



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269. During daytime the rate of this process is usually higher than respiration_____

- A. Photosynthesis
- B. Respiration
- C. Transport
- D. Transpiration



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270. The partial pressure of oxygen in the alveoli of the lungs is

- A. Kidney
- B. Lungs
- C. Blood
- D. Liver



Watch Video Solution

271. Vocal cords are present in this part of respiration system

- A. Larynx
- B. Pharynx
- C. Trachea
- D. Glottis



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272. In earthworm hameoglobin is present in

A. Blood

B. Plasma

C. Lymph

D. All the above

Answer:

273. Name the part that plays major role in respiratory movements in woman .

A. Diaphragm

B. Lungs

C. Liver

D. Ribs

Answer:



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274. Animals which live on land are called

- A. Terrestrial animals
- B. Aquatic animals
- C. Amphibious animals
- D. Nocturnal animals

Answer:



275.	Most	animals	that	live	in	deep	oceanic
wate	ers are	:					
Δ	A. Land						
В	3. Fores	st					
C	. Wate	er					
D). Dese	rt					





276. Amphibious animal

- A. Frog
- B. Salamander
- C. Frog and Salamander
- D. Lizard

Answer:



277. Animals that can live both on land and water are called

- A. Terrestrial animals
- B. Amphibious animals
- C. Aquatic animals
- D. Diurnal animals

Answer:



278. In man nostrils open into

- A. Pharynx
- B. Larynx
- C. Nasal cavities
- D. Palate

Answer:



279. Which of the following group constitute the right pathway of gases in the respiratory system?

A. Nostrils ightarrow Nasal cavity ightarrow Larynx ightarrow

Pharynx ightarrow Bronchus ightarrow Trachea ightarrow

Bronchioles ightarrow Alveolus ightarrow Blood

B.Nostrils ightarrow Nasal cavity ightarrow Pharynx ightarrow

Larynx ightarrow Trachea ightarrow Bronchus ightarrow

Bronchioles ightarrow Alveolus ightarrow Blood

A. Vocal cards

B. Cartilaginous rings

C. Dust

D. All of the above

Answer:



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280. Trachea are found in

A. Air pipe

B. Sound pipe

C. Wind pipe

D. Anaemo pipe

Answer:



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281. By which process the carbondioxide in the blood is exchanged for oxygen in the alveoli?

- A. Osmosis
- B. Diffusion
- C. Osmoregulation

D. Cohesion

Answer:



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282. In which animals we can observe tracheal respiratory system ?

A. Aves

B. Insects

C. Reptiles

D. Mammals

Answer:



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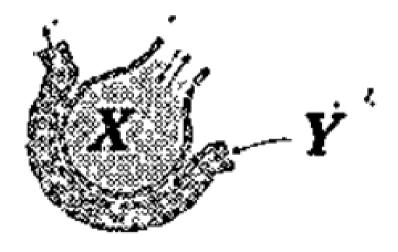
283. Breathing roots are present in

- A. Mangrove plants
- B. Orchids
- C. Ornamental plants
- D. Desert plants



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284. Label the parts X and Y in given diagram.



A. Co_2 , capillary network

B. Alveolus, O_2

C. O_2 , CO_2

D. Blood cell, CO_2

Answer:



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285. What is anaerobic respiration?

A. It takes place in all flowering plants

B. It produces more energy and heat

C. It produces less energy

D. End product is CO_2 , H_2O only

Answer:



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286. What is the role of Janus Green -B indicator in anaerobic experiment with yeast?

- A. To test presence of CO_2
- B. To test presence of Hydrogen
- C. To test presence of yeast

D. To test the presence of oxygen

Answer:



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287. What are the components present in exhaled air ?

A. CO_2 , O_2

B. 0_2 water vapour

 $\mathsf{C}.\,CO_2$ water vapour

D. Water vapour

Answer:



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288. A living system has a continuous inflow of chemical energy in the form of food and out flow in the form of removal of waste. Such a system is called

A. Pressure

- B. Water vapour
- C. Heat
- D. None



- 289. Power houses of the cell is
 - A. Golgi complex
 - B. Endoplasmic reticulum

- C. Mitochondria
- D. Vacuole



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290. Energy is stored in

- A. 7200cal
- B. 7200 kilo cal
 - C. 7500 cal

D. 7500 kilo cal

Answer:



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291. When carbondioxide gas is passed through lime water, latter turns milky whitedue to the formation of:

A. Oxygen

B. Carbon dioxide

- C. Nitrogen
- D. Water vapour



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292. Enzymatic machinery required for partial breakdown of glucose into two molecules of pyruvic acid without the involvement of oxygen is present in

- A. Cytoplasm
- B. Chloroplast
- C. Mitochondria
- D. Golgibody



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293. The photosynthesis in a plant is not taking place during the daytime if the plant is releasing

- A. Water vapour
- B. Oxygen
- C. Carbon dioxide
- D. All of the above



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294. What are the components present in exhaled air?

- A. CO_2
- B. Water vapour
- C. Nitrogen
- D. All



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295. What has raised the percentage of carbon dioxide in exhaled air?

- A. 0.0004
- B. 5.0E-5
- C. 0.04
- D. 0.05



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296. Products formed due to the fermen-tation of pyruvate by yeasts are

A. Ethanol

B. CO_2

C. Energy

D. All of the above

Answer:



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297. The involuntary actions like respiration is under the control of(1) a part ofsystem (2).

- A. Lurigs
- B. Cerebrum
- C. Medulla oblongata
- D. Cerebellum



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298. Aerobic respiration is more advantageous

because it

- A. Yields less energy
- B. Occurs in the absence of oxygen
- C. Yields more energy
- D. Causes Incomplete breakdown of organic molecules



299. The mechanism of breakdown of food materials within the cells to release energy is called

- A. Expiration
- B. Inspiration
- C. Cellular respiration
- D. Anaerobic respiration

Answer:



300. Pharynx opens into trachea through

- A. Glottis
- B. Larynx
- C. Epiglottis
- D. Palate

Answer:



301. What occupies the space between the pleural membranes of the lungs?

- A. Cerebrospinal fluid
- B. Pericardial fluid
- C. Vaccum
- D. Pleural fluid

Answer:



302. What is the percentage of oxygen in atmosphere?

A. 0.18

B. 0.16

C. 0.79

D. 0.21

Answer:



303. What is the percentage of oxygen in the exhaled air ?

- A. 0.21
- B. 0.2
- C. 0.16
- D. 0.19

Answer:



304. Identify the scientist. "Respiration was a process like combustion"

A. energy is stored in the form of ADP

B. energy is used up

C. energy is released and stored in the

form of ATP

D. energy is not released at all

Answer:



305. Which among the following are the smallest living known without a definite cell wall, pathogenic to plants as well as animals and can survive without oxygen?

- A. Amoeba
- B. Sheep
- C. Yeast
- D. Leech

Answer:



306. What are the respiratory organs of Dolphins?

A. Lungs

B. Gills

C. Skin

D. Trachea

Answer:



307. Carbon dioxide

- A. respirable air
- B. chalky air
- C. Inhaled air
- D. Atmospheric air

Answer:



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

- A. Heat is liberated
- B. Carbon dioxide is liberated
- C. Nitrogen is liberated.
- D. All of the above

Answer:



309. Carbondioxide turns lime water into milky
white due to the formation of

- A. Oxygen
- B. Water vapour
- C. Carbon dioxide
- D. None of the above



310. The greater quantity of atmospheric air is of

- A. Nitrogen
- B. Oxygen
- $\mathsf{C}.\,CO_2$
- D. Water vapour

Answer:



311. Fermentation is

- A. Fungi
- B. Algae
- C. Bacteria
- D. Yeast

Answer:



312. In which process food is broken down for release of energy?

- A. Digestion
- B. Respiration
- C. Excretion
- D. Photosynthesis

Answer:



313.	Name	the	respiratory	organs	present	in
fish						

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



314. In which organisms does exchange of gases take place through diffusion?

- A. Amoeba
- B. Hydra
- C. Planaria
- D. All the above

Answer:



315. The flexible and flattened muscle present in the chest cavity which is useful to move lungs forward and backward is

- A. Circular muscle
- B. Cardiac muscle
- C. Diaphragm
- D. None of these

Answer:



316. The structure that is spongy	to
--	----

- A. Heart
- B. Lungs
- C. Kidney
- D. None of these



317. The layer that encloses lungs are called plura. Likewise the layer that covers heart is called

- A. Mucous membrane
- B. Pericardium
- C. Pleura
- D. Tympanum

Answer:



318. Oil is applied on the lowe side of the leaf The result is

- A. Photosynthesis does not take place.
- B. Respiration does not take place.
- C. Transpiration does not take place.
- D. All the above

Answer:



319. Read the sentence, find the error and rewrite it.

At a height of 13 km, the concentration of oxygen is much lower about 1/6th at sea level.

A. much lower

B. medium

C. higher

D. zero level

Answer:



320. All movements of breathing are controlled by

- A. muscles
- B. nerves
- C. diaphragm
- D. ribs

Answer:



321. Human haemoglobin is made up of

- A. Globin
- B. Iron
- C. Porphyrin
- D. All the above

Answer:



322. Observe the following statements. a) All living cells of an organism perform respiration, b) Respiration is a catabolic process.

A. a correct, b false

B. b correct, a false

C. Both a, b false

D. Both a, b correct

Answer:

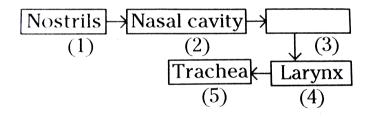


323. Man : Lungs , Frog : _____



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324. Complete this flow chart .



- A. Bronchus
- **B.** Alveolus
- C. Pharynx

D. Bronchioles

Answer:



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325. Arrange the following flow chart in the correct order .

$$\begin{array}{c|c} \hline \text{Branchioles} \rightarrow \hline \text{Bronchus} \rightarrow \hline \text{Alveolus} \\ \hline (1) & (2) & \downarrow & (3) \\ \hline \hline & \hline & \hline & \hline & \hline \\ & & \hline & \hline & \hline \\ & & & \hline \\ & & & (5) & (4) \\ \hline \end{array}$$

A. 1,3,5,4,2

- B. 3,2,5,1,4
- C. 3,1,2,4,5
- D. 3,1,2,5,4



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326. I occur when 'oxygen debt ' arises in muscles . I cause muscle cramps. Who am I?

A. Lack of energy

- B. Lack of vitamins
- C. Strenous exercises
- D. none



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327. Respiration in euglena takes place through

A. gills

- B. skin
- C. lungs
- D. diffusion



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328. What is the life span of RBC?

- A. 120 days
- B. 130 days

C. 140 days

D. 100 days

Answer:

