



BIOLOGY

NCERT - NCERT BIOLOGY(TELUGU)

RESPIRATION - THE ENERGY RELEASING SYSTEM

Think And 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 alveoli are so small and uncountable in number?



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Improve Your Learning

1. Distinguish between
inspiration and expiration



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2. Distinguish between
Aerobic respiration and Anaerobic respiration



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3. Distinguish between

Respiration and Combustion



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4. Distinguish between

photosynthesis and respiration



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5. State two similarities between aerobic and anaerobic respiration.



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



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



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



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9. Plants photosynthesize during daytime and respire during the night. Do you agree to this statement? Why? Why not?



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



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



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



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



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14. How gases exchange takes place at blood level?



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



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



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



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18. What will happen if diaphragm is not there in the body?



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19. If you have a chance to meet pulmonologist what questions are you going to clarify about pulmonary respiration?



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



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



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



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



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



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



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



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



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

respiration.



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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 _____.



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3. Energy currency of the cell is



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4. Lenticels are the respiratory organs exists in _____ part of plant.



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5. Mangroove trees respire with their
_____.



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Choose The Correct Answer

1. We will find vocal cords in

A. 1. Larynx

B. 2. Pharynx

C. 3. Nasal cavity

D. 4. Trachea

Answer:



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2. Cluster of air sacs in lungs are called

A. alveolus

B. bronchi

C. braonchioles

D. air spaces

Answer:



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3. Which of the following is correct

A. the diaphragm contracts - volume of chest cavity increased

B. the diaphragm contracts - volume of chest cavity decreased

C. the diaphragm expands - volume of chest cavity increased

D. the diaphragm expands - volume of chest cavity decreased

Answer:



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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:



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5. Energy is stored in

A. nucleus

B. mitochondria

C. ribosomes

D. cell wall

Answer:



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