



BIOLOGY

NCERT - NCERT BIOLOGY(TELUGU)

RESPIRATION-THE ENERGY PRODUCING SYSTEM

Improve Your Learning

1. Distinguish between Inspiration and Expiration



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2. Distinguish between Aerobic 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. Balu said that , "Plants perform Photosynthesis during day time. They respire during night time ".

Do you agree with Balu ? Why ? Why not ?



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



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



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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?



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



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



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



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



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



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



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19. if you have a chance to meet pulmonologist , what questions are you going to ask 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 do you appreciate the mechanism of respiration in our body ?



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



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

respiration.



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Improve Your Learning 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 called ____



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



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5. Mangrove trees respire with their _____



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Improve Your Learning Choose The Correct Answer

1. We will find vocal cords in

A. larynx

B. pharynx

C. nasal cavity

D. trachea

Answer:



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2. Cluster of air sacs in lungs are called

A. alveoli

B. bronchi

C. bronchioles

D. air spaces

Answer:



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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 & ii

C. ii & iii

D. iv

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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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 are alveoli so small and uncountable in number ?



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