



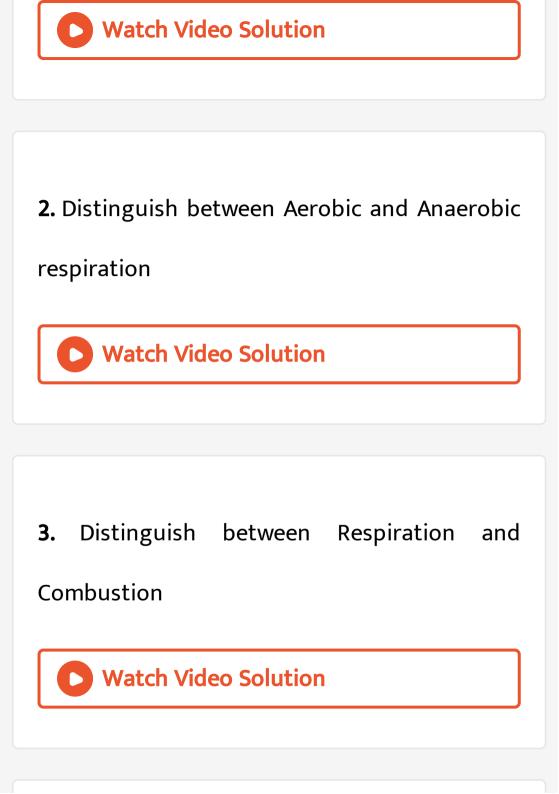
BIOLOGY

NCERT - NCERT BIOLOGY(TELUGU)

RESPIRATION-THE ENERGY PRODUCING SYSTEM

Improve Your Learning

1. Distinguish between Inspiration and Expiration



4. Distinguish between Photosynthesis and Respiration
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5. State two similarities between aerobic and

anaerobic respiration.

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.



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



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

Do you agree with Balu ? Why ? Why not ?



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 ?

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 ?

14. How does gaseous exchange take place at

blood level ?



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



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?



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 ?

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.



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.



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?



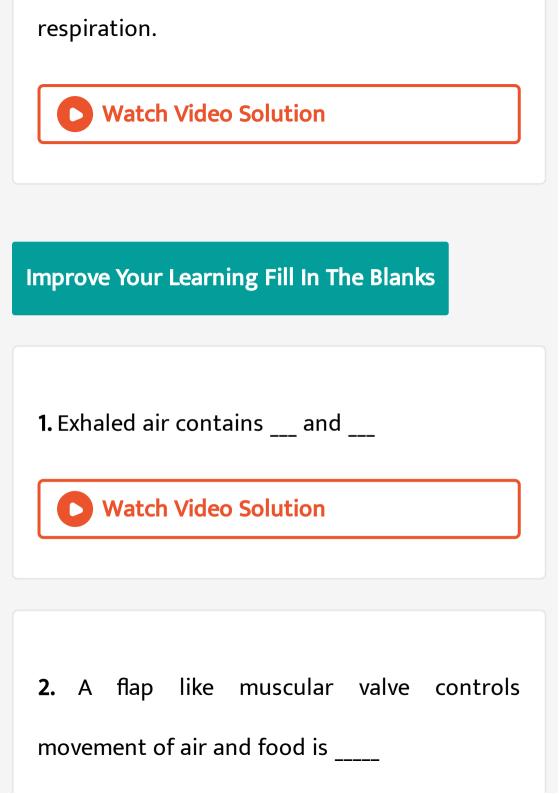
27. Prepare an article on anaerobic respiration

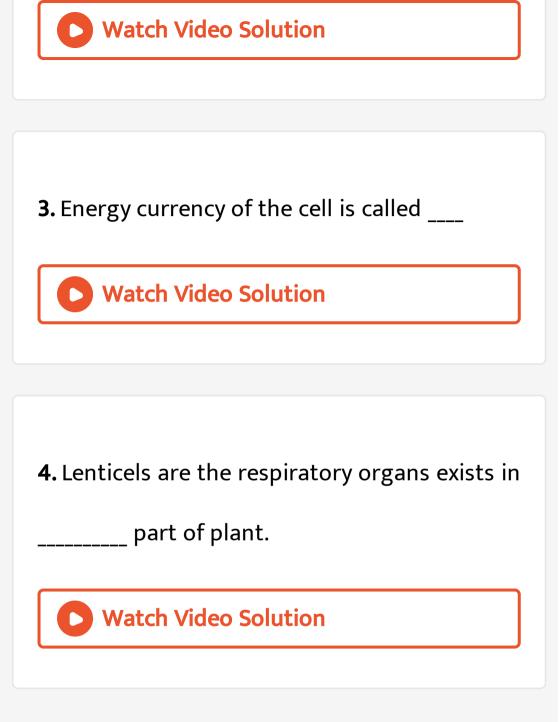
to present school symposium

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28. Prepare a cartoon on discussion between

haemoglobin and chlorophyll about





5. Mangrove trees respire with their _____



Improve Your Learning Choose The Correct Answer

1. We will find vocal cords in

A. larynx

B. pharynx

C. nasal cavity

D. trachea

Answer:



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:

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:

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 smell and uncountable in

number ?

