



Subject :- Science

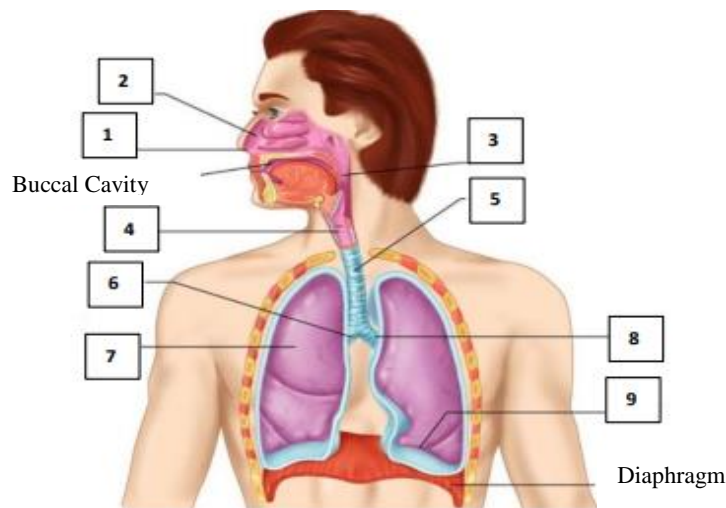
Grade:- 11

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## Functions of Human Body – Human Respiratory System

Function: - Obtain Oxygen and produce energy necessary for body functions

- 1) Human respiration has three main stages?
  - a) .....
  - b) .....
  - c) .....
- 2) Name the main organs of human respiratory system



- a) Exchange air between lungs and external environment – Obtain gases into lungs and remove waste produce waste gases out of cells – Gas exchange

- 3) What Happen when air enters through the nostrils?  
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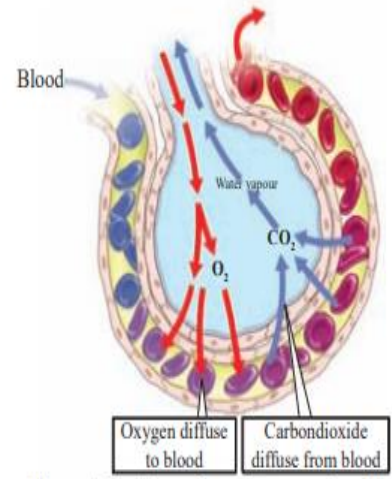
- 4) Compare and contrast inspiration and nostrils?

Inspiration	Expiration
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.....	.....
.....	.....
.....	.....

b) Gas exchange in alveoli – Alveoli exchange gases between external environment and alveoli.

5) What are the features of respiratory surface?

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 .....  
 .....



6) Explain air exchange occurring alveoli?

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 .....  
 .....

c) Cellular respiration – Process of oxidation of simple food to produce energy for biological activities of living cells.

7) Write the balanced chemical equation for cellular respiration?

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8) Mention the changes of bellow respiration types?

- a) Aerobic Respiration - .....
- d) Anaerobic Respiration - .....

9) Anaerobic respiration has main two types

- a) Alcohol Fermentation
  - Place - .....
  - Equation - .....
- b) Lactic Acid Fermentation
  - Place - .....
  - Equation - .....

Energy produced at cellular respiration is started in ATP

10) Compare the disease relate to respiratory system.

Disease	Feature	Reasons	How to avoid
1) Common Cold			
2) Pneumonia			
3) Bronchitis			
4) Tuberculosis			
5) Diseases related to smoking			
6) Silicosis			
7) Asbestosis			