

## Respiratory System Learning Objectives

### I. Functional Anatomy Part I

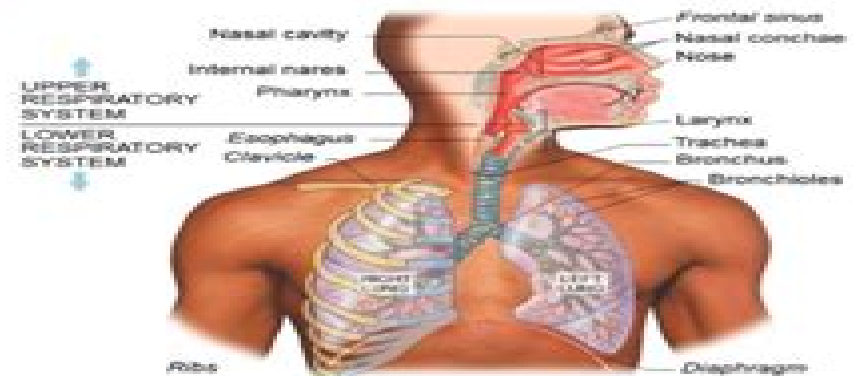
#### a. Describe principles of respiration and associated respiratory anatomy

##### i. External respiration:

1. Exchange of  $O_2$  and  $CO_2$  between the environment and cells of the body (gas exchange via the lungs)
  - a. 250 ml  $O_2$  enters the body every minute
  - b. 200 ml  $CO_2$  is expired every minute

##### ii. Cellular or internal respiration

1. cellular utilization of  $O_2$  for the production of ATP resulting in the formation of  $CO_2$  as the primary waste product



#### b. Identify functions of the respiratory system and the 4 major steps in respiration

##### i. Principle function of respiratory system:

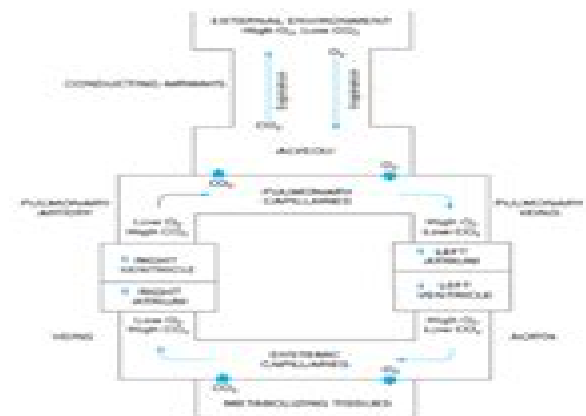
1. External respiration (gas exchange)

##### ii. Other functions:

1. Acid-base balance via the elimination of  $CO_2$
2. Phonation
  - a. Vocalization via vocal cords (sound produced when air passes through glottis and causes the vocal cords to vibrate)
3. Defense mechanisms against infections (mucociliary clearance)
  - a. "air conditioning process"
4. Pulmonary metabolism
  - a. Activation/inactivation of endogenous and exogenous chemicals/substances
5. Olfaction (smell)
6. Route of administration for drugs
  - a. Volatile anesthetics, bronchodilators, vaccines, pulmonary vasodilators, CII/I substances
  - b. **Bypass first-pass metabolism** (but only 10-20% of dose inhaled is absorbed via lungs)

##### iii. Four major steps in external respiration

1. Ventilation:
  - a. air moves **into the lungs during inspiration**, and **out during expiration**
2.  $O_2$  and  $CO_2$  exchange between air and blood flowing through pulmonary capillaries.
  - a. At the **pulmonary alveolar level**
3.  $O_2$  and  $CO_2$  are transported in the blood to all tissues of the body through systemic circulation.
4.  $O_2$  and  $CO_2$  are exchanged between blood and body tissue cells.
  - a. At **systemic capillary level**



# Chapter 16 The Respiratory System Study Guide

## Answers

**J Elliott**



## **Chapter 16 The Respiratory System Study Guide Answers:**

## Decoding **Chapter 16 The Respiratory System Study Guide Answers**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Chapter 16 The Respiratory System Study Guide Answers**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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