



# SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

**AN AUTONOMOUS INSTITUTION**

Accredited by NAAC – UGC with 'A' Grade

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

**Department of Mechanical Engineering**

## 19BY701 - BIOLOGY FOR ENGINEERS

### UNIT -2 | BIODIVERSITY

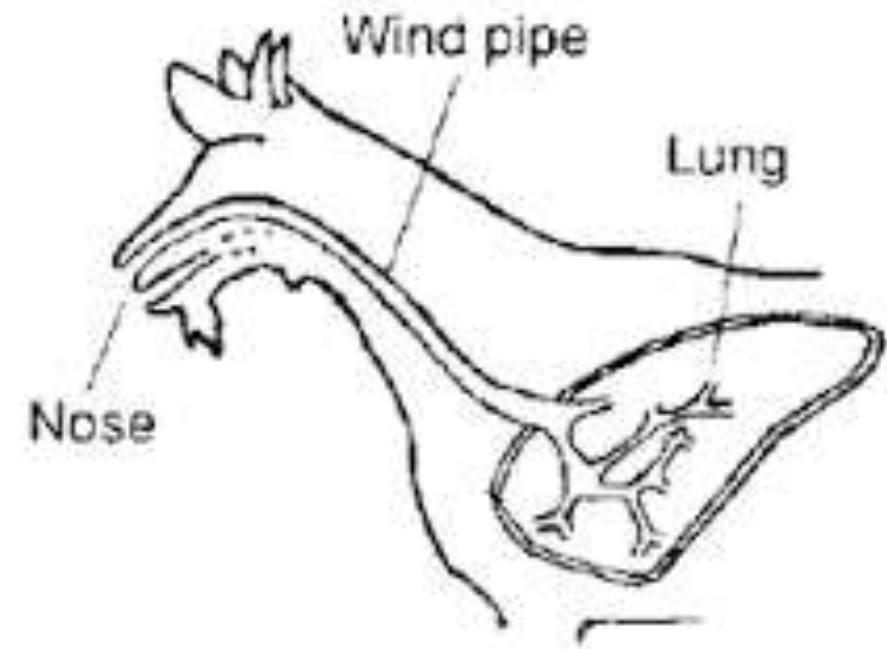
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**Ap/Mech**

# ANIMAL SYSTEM

- The organs of the body.
- **The musculo-skeletal system.**
- The digestive system.
- The circulatory system and blood.



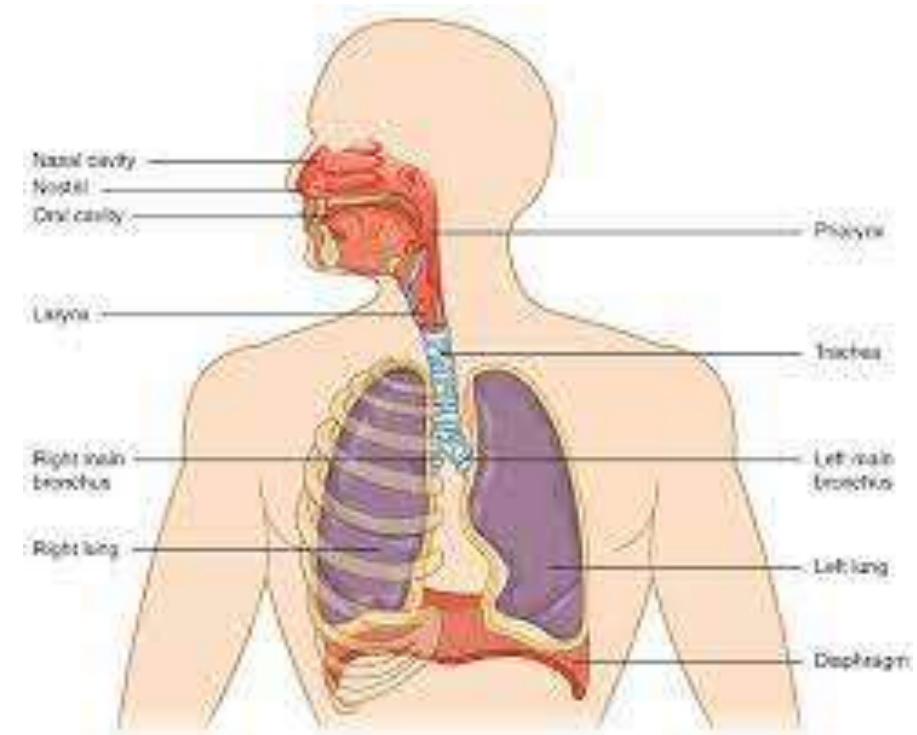
# DIGESTIVE SYSTEM

- The digestive system **includes the mouth, pharynx (throat), esophagus, stomach, small intestine, large intestine, rectum, and anus.**
- It also includes the salivary glands, liver, gallbladder, and pancreas, which make digestive juices and enzymes that help the body digest food and liquids.



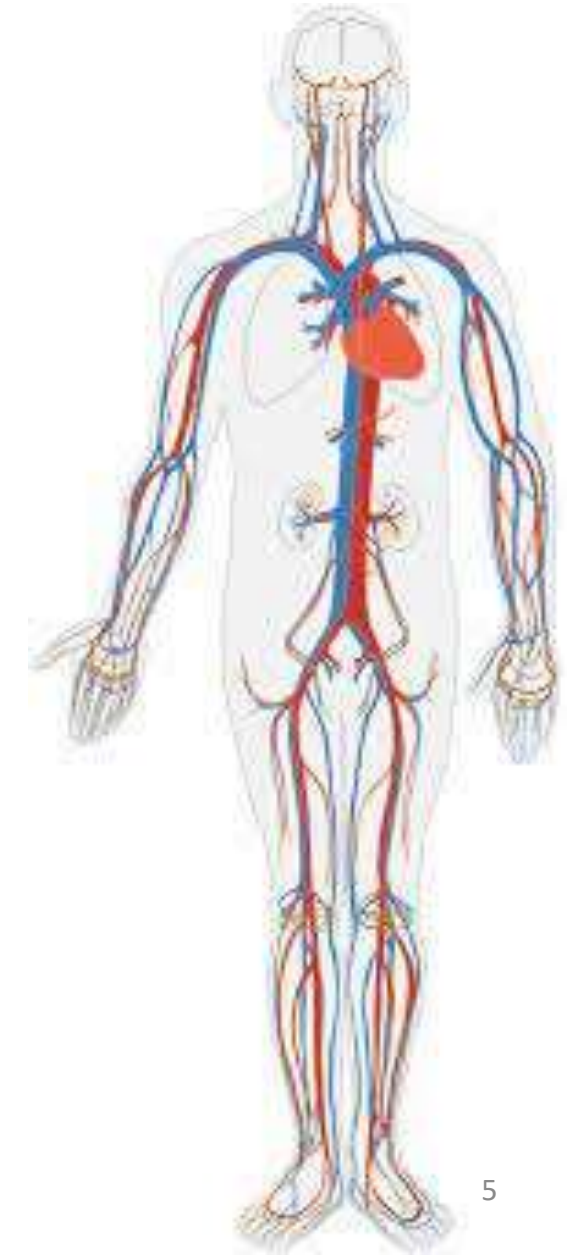
# RESPIRATORY SYSTEM

- The respiratory system is **the network of organs and tissues that help you breathe.** It includes your airways, lungs and blood vessels.
- The muscles that power your lungs are also part of the respiratory system.
- These parts work together to move oxygen throughout the body and clean out waste gases like carbon dioxide.



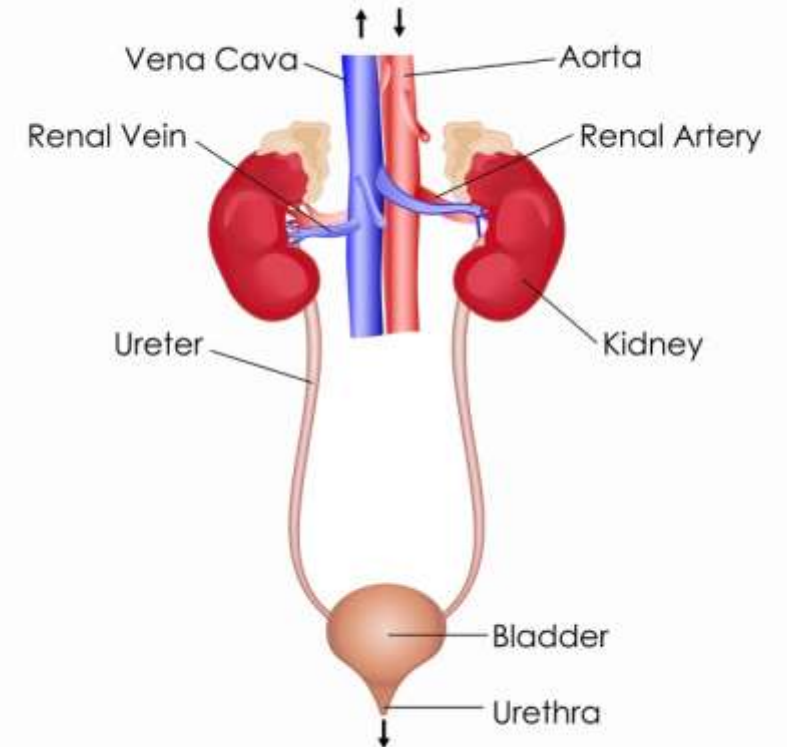
# CIRCULATORY SYSTEM

- The circulatory system (cardiovascular system) **pumps blood from the heart to the lungs to get oxygen.**
- The heart then sends oxygenated blood through arteries to the rest of the body.
- The veins carry oxygen-poor blood back to the heart to start the circulation process over.



# EXCRETORY SYSTEM

- The principal function of the urinary system is to **maintain the volume and composition of body fluids within normal limits.**
- One aspect of this function is to rid the body of waste products that accumulate as a result of cellular metabolism, and, because of this, it is sometimes referred to as the excretory system.





# ASSESSMENT

## Match the Following

1. ANIMAL SYSTEM
  2. DIGESTIVE SYSTEM
  3. RESPIRATORY SYSTEM
  4. CIRCULATORY SYSTEM
  5. EXCRETORY SYSTEM
- a. Maintain the volume and composition of body fluids
  - b. Pumps blood from the heart to the lungs to get oxygen
  - c. The network of organs and tissues that help you breathe
  - d. Help the body digest food and liquids
  - e. The musculo-skeletal system