

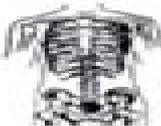
# Human Body SYSTEMS Study Guide

## Muscular System:



- Main body part and organ of Muscular System: all Muscles
- Three types of muscles: Smooth (stomach, lungs, blood vessels), Skeletal (biceps, triceps), Cardiac (heart)
- The nervous system detects stimuli and sends messages to the muscular system and this creates movement.
- Works directly with the skeletal system—often called musculoskeletal system

## Skeletal System:



- Main body parts and organs of Skeletal System: Bones
- Three functions of the skeleton: Protects organs, movement, supports muscles
- Works directly with the muscular system—often called musculoskeletal system

## Circulatory System:



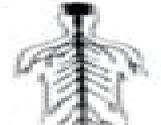
- Main body parts and organs of Circulatory System: heart, blood vessels (capillaries, veins, arteries)
- Main job of the circulatory system is to circulate blood throughout the body.
  - Blood Vessels use the muscular system to circulate the blood around the body.
- Exchange of oxygen and carbon dioxide between air and blood occurs in lungs (in the air sacs called the alveoli)
  - These nutrients, wastes, and oxygen are exchanged between blood and cells in the CAPILLARIES attached to the air sacs (Alveoli)
- The circulatory system passes nutrients, gases, hormones, and blood cells to and from cells in the body. This helps our body fight diseases (white blood cells attack germs). In addition, this helps us maintain body temperature.
  - In humans, most gas exchange occurs between the circulatory system and the respiratory system.
- The three types of Blood Vessels are: Veins (move towards the heart and are oxygen poor), Arteries (pump blood away from the heart and oxygen rich-“Arteries away”), and Capillaries (tiny blood vessels that bring oxygen rich blood & nutrients and remove waste from tiny tissues in our body)
- Heart has four chambers and pumps blood directly into the arteries (and therefore out of the heart) “Arteries away”

## Respiratory System:



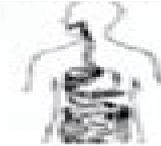
- Main body parts and organs of Respiratory System: Nose, Trachea, Lungs
- When you are exercising your breathing rate and your heart rate will rise. It will go back down after you finish exercising.
- Exchange of oxygen and carbon dioxide between air and blood occurs in lungs (in the air sacs called the alveoli)
  - Respiratory system works with the circulatory system to bring oxygen into the blood. This occurs in the lungs
- In humans, most gas exchange occurs between the circulatory system and the respiratory system.

## Nervous System:



- Main body parts and organs of Nervous System: Brain, spinal cord, nerve cells (neurons)
- The nervous system controls all the other systems in the body
- The nervous system detects stimuli and sends messages to the muscular system and this creates movement.
- Messages are sent from the brain (Central Nervous System) through neurons and delivered all throughout our body (using the Peripheral Nervous system)

## Digestive/Excretory System:



- Main body parts and organs of Digestive System: Mouth, Esophagus, Stomach, Intestines
- Food is broken up in two ways: Mechanical Digestion (physical breaking apart of food) and Chemical Digestion (enzymes in your stomach, liver, and pancreas break down the food)
  - After the food is broken down it moves into the small intestine
  - The small intestine is where most of the nutrients from food are absorbed.
  - Cells on the surface of the small intestine absorb the nutrients our body needs.
  - Then the rest of the digested food is eliminated out of the large intestine or colon as waste.
- Nutrients that that our body needs are absorbed into our cells from our small intestines.

# Human Body Systems Eca Study Guide Answers

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Advances in Intelligent Tutoring Systems Roger Nkambou, Riichiro Mizoguchi, Jacqueline Bourdeau, 2010-08-27 May the Forcing Functions be with You The Stimulating World of AIED and ITS Research It is my pleasure to write the foreword for Advances in Intelligent Tutoring Systems This collection with contributions from leading researchers in the field of artificial intelligence in education AIED constitutes an overview of the many challenging research problems that must be solved in order to build a truly intelligent tutoring system ITS The book not only describes some of the approaches and techniques that have been explored to meet these challenges but also some of the systems that have actually been built and deployed in this effort As discussed in the Introduction Chapter 1 the terms AIED and ITS are often used interchangeably and there is a large overlap in the researchers devoted to exploring this common field In this foreword I will use the term AIED to refer to the search area and the term ITS to refer to the particular kind of system that AIED researchers build It has often been said that AIED is AI complete in that to produce a tutoring system as sophisticated and effective as a human tutor requires solving the entire gamut of artificial intelligence research AI problems

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