

ANATOMY AND PHYSIOLOGY

23 PAGES GUIDE

Visual learner Notes

System	Structure	Function
Integumentary	Skin	Protects the body from external damage and regulates body temperature.
	Hair	Protects the skin and helps regulate body temperature.
	Nails	Protects the tips of the fingers and toes.
	Sweat glands	Regulate body temperature by releasing sweat.
Skeletal	Bones	Support the body and protect internal organs.
	Joints	Allow movement between bones.
	Ligaments	Connect bones to other bones.
	Tendons	Connect muscles to bones.

System	Structure	Function
Muscular	Myofibrils	Contract to produce movement.
	Sarcomeres	Basic units of contraction.
	Actin	Thick filaments that contract.
	Myosin	Thin filaments that contract.
Cardiovascular	Heart	Pumps blood throughout the body.
	Arteries	Carry oxygenated blood away from the heart.
	Venues	Carry deoxygenated blood back to the heart.
	Capillaries	Exchange oxygen and nutrients with tissues.

System	Structure	Function
Respiratory	Lungs	Exchange oxygen and carbon dioxide.
	Trachea	Carry air into and out of the lungs.
	Diaphragm	Contracts to draw air into the lungs.
	Alveoli	Small sacs where gas exchange occurs.
Digestive	Mouth	Chews food and begins digestion.
	Stomach	Breaks down food into smaller pieces.
	Small intestine	Absorbs nutrients from food.
	Large intestine	Eliminates waste from the body.

System	Structure	Function
Excretory	Kidneys	Filter waste from the blood.
	Ureters	Carry urine from the kidneys to the bladder.
	Bladder	Stores urine until it is ready to be eliminated.
	Uthra	Eliminates waste from the body.

System	Structure	Function
Endocrine	Hypothalamus	Controls the body's internal clock and hormone levels.
	Pituitary gland	Releases hormones that control other glands.
	Thyroid gland	Produces thyroid hormone, which regulates metabolism.
	Adrenal glands	Produce adrenaline, which helps the body respond to stress.

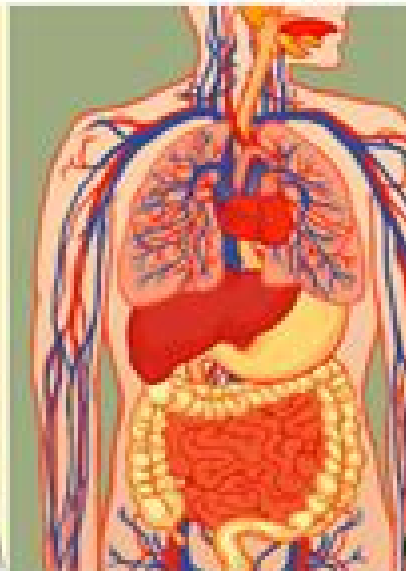
System	Structure	Function
Immune	White blood cells	Fight off infection and disease.
	Antibodies	Proteins that bind to and destroy pathogens.
	Macrophages	Cells that engulf and destroy pathogens.
	T-cells	Cells that kill infected cells and regulate the immune response.

System	Structure	Function
Nervous	Brain	Controls the body's actions and thoughts.
	Spinal cord	Carries messages between the brain and the rest of the body.
	Nerves	Transmit electrical impulses throughout the body.
	Receptors	Detect changes in the environment and send signals to the brain.

System	Structure	Function
Reproductive	Ovaries	Produce eggs and female hormones.
	Uterus	Where the fetus develops during pregnancy.
	Vagina	Passage for childbirth and menstruation.
	Penis	Male reproductive organ.

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Aman Khan



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