

Human Physiology Quiz PDF

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Which of the following are components of the central nervous system? (Select all that apply)

- Brain
- Spinal cord
- Peripheral nerves
- Ganglia

Which gland is known as the "master gland" of the endocrine system?

- Thyroid gland
- Adrenal gland
- Pituitary gland
- Pancreas

What is the main function of the nephron in the kidney?

- Blood circulation
- Urine formation
- Hormone production
- Nutrient absorption

Where does fertilization of the egg typically occur in the female reproductive system?

- Ovary
- Uterus
- Fallopian tube
- Cervix

Which type of blood vessel carries blood away from the heart?

- Veins
- Capillaries

- Arteries
- Lymphatics

What is the primary function of red blood cells?

- Fighting infections
- Transporting oxygen
- Clotting blood
- Producing hormones

Which organelle is known as the powerhouse of the cell?

- Nucleus
- Mitochondria
- Ribosome
- Golgi apparatus

Which mechanisms are involved in thermoregulation? (Select all that apply)

- Sweating
- Shivering
- Vasodilation
- Digestion

Explain the role of the sodium-potassium pump in maintaining cellular homeostasis.

Describe the process of synaptic transmission in the nervous system.

How does the body regulate blood pressure during physical activity?

Discuss the feedback mechanism involved in the regulation of blood glucose levels.

What are the physiological changes that occur in the body during the fight-or-flight response?

Explain how the structure of the alveoli in the lungs facilitates efficient gas exchange.

Which hormones are produced by the adrenal glands? (Select all that apply)

- Cortisol
- Adrenaline
- Insulin
- Aldosterone

Which of the following are types of white blood cells? (Select all that apply)

- Neutrophils
- Erythrocytes
- Lymphocytes
- Platelets

Which hormone is primarily responsible for lowering blood glucose levels?

- Glucagon
- Insulin
- Adrenaline
- Cortisol

Which processes are involved in urine formation in the kidneys? (Select all that apply)

- Filtration
- Reabsorption
- Secretion
- Digestion

Which part of the brain is responsible for regulating breathing?

- Cerebellum
- Medulla oblongata
- Hypothalamus

Thalamus

What are the functions of the liver in the digestive system? (Select all that apply)

- Bile production
- Insulin secretion
- Detoxification
- Protein synthesis