

## Animal Physiology Quiz PDF

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**Which organ is primarily responsible for filtering blood in mammals?**

- Liver
- Heart
- Kidneys
- Lungs

**What is the primary function of the respiratory system?**

- To circulate blood
- To exchange gases
- To digest food
- To produce hormones

**Explain how behavioral adaptations can enhance an animal's survival in extreme environments.**

**How do feedback loops contribute to the regulation of physiological processes? Provide an example.**

**What are the main differences between the nervous systems of invertebrates and vertebrates?**

**Which of the following systems are involved in maintaining homeostasis? (Select all that apply)**

- Nervous system
- Digestivesystem
- Endocrine system
- Skeletal system

**Which hormone is primarily involved in regulating blood sugar levels?**

- Adrenaline
- Insulin
- Thyroxine
- Estrogen

**What is the primary role of the nervous system?**

- Hormone production
- Sensory perception and response
- Blood filtration
- Digestion

**What is the main function of the circulatory system?**

- Digestion of food
- Transport of nutrients and oxygen
- Regulation of body temperature
- Production of hormones

**Which of the following are functions of the nervous system? (Select all that apply)**

- Sensory perception
- Blood filtration
- Motor control
- Hormone production

**Discuss the differences between the respiratory systems of fish and mammals.**

**What are some ways animals adapt to arid environments? (Select all that apply)**

- Water conservation
- Thick fur
- Nocturnal behavior
- High metabolic rate

**Describe the role of hormones in regulating the reproductive cycle of mammals.**

**Which of the following are components of the excretory system? (Select all that apply)**

- Kidneys
- Lungs
- Bladder
- Stomach

**In which part of the digestive system does most nutrient absorption occur?**

- Stomach
- Large intestine
- Small intestine
- Esophagus

**Which physiological processes are influenced by circadian rhythms? (Select all that apply)**

- Sleep-wake cycles
- Digestion
- Heart rate
- Bone growth

**Explain how the process of osmoregulation helps maintain homeostasis in aquatic animals.**

**Which of the following is a characteristic of endothermic animals?**

- They rely on external heat sources.
- They have a constant body temperature.
- They are cold-blooded.
- They hibernate in summer.

**Which of the following animals is known for its ability to enter a state of hibernation?**

- Elephant
- Bear
- Dolphin

Kangaroo

**What are some adaptations animals use for thermoregulation? (Select all that apply)**

- Sweating
- Shivering
- Hibernation
- Photosynthesis