

CHAPTER 35 NERVOUS SYSTEM

VOCABULARY REVIEW ANSWER KEY

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What happens if nerve cells sense that the core body temperature has dropped below 37 °C? What happens if nerve cells sense that the core body temperature has dropped below 37°C? The hypothalamus produces chemicals that signal cells throughout the body to speed up their activities, which causes a gradual rise in body temperature.

What is nervous system answers? What Is the Nervous System? The nervous system includes the brain, spinal cord, and a complex network of nerves. This system sends messages back and forth between the brain and the body. The brain is what controls all the body's functions. The spinal cord runs from the brain down through the back.

Why is the nervous system important? The nervous system plays a role in nearly every aspect of our health and well-being. It guides everyday activities such as waking up; automatic activities such as breathing; and complex processes such as thinking, reading, remembering, and feeling emotions. The nervous system controls: Brain growth and development.

What are the main functions of the central nervous system? The CNS's responsibilities include receiving, processing, and responding to sensory information (see Image. Peripheral and Central Nervous Systems). The brain is an organ of nervous tissue responsible for responses, sensation, movement, emotions, communication, thought processing, and memory.

What happens if the body temperature rises too far above 37 °C? When the body core temperature rises above the critical level of 37 C (98.6 F), there is an

increase in the rate of heat loss by sweating. Shivering and chemical thermogenesis are strongly inhibited.

What happens if your body temperature drops below 35 C? Severe hypothermia is life-threatening Mild hypothermia (32 to 35°C body temperature) is usually easy to treat. However, the risk of death increases as the core body temperature drops below 32°C. If core body temperature is lower than 28°C, the condition is life-threatening without immediate medical attention.

How do nerve signals travel up and down the spinal cord? Posterior (sensory) horns: These horns contain nerve cells that receive signals about pain, temperature, and other sensory information through the sensory root from nerve cells outside the spinal cord. Impulses travel up (to the brain) or down (from the brain) the spinal cord through distinct pathways (tracts).

What are the 7 nervous system? The central nervous system (defined as the brain and spinal cord) is usually considered to have seven basic parts: the spinal cord, the medulla, the pons, the cerebellum, the midbrain, the diencephalon, and the cerebral hemispheres (Figure 1.10; see also Figure 1.8).

How many nervous systems are in the human body? The nervous system has two main parts: The central nervous system is made up of the brain and spinal cord. The peripheral nervous system is made up of nerves that branch off from the spinal cord and extend to all parts of the body.

What happens to nerve cells when the core body temperature drops? If the temperature falls below 37°C then it sends nerve impulses to effectors, the skin and muscles, to cause: shivering. vasoconstriction. in blood vessels that supply skin capillaries with blood - this reduces blood flow near the skin's surface and reduces heat loss.

What happens when core body temperature drops? When body temperature drops, the heart, nervous system and other organs can't work as well as they usually do. Left untreated, hypothermia can cause the heart and respiratory system to fail and eventually can lead to death. Common causes of hypothermia include exposure to cold weather or immersion in cold water.

Why is it important to keep the body temperature constant at 37 C? In particular, enzymes in a body's cells must have the correct temperature to be able to catalyse chemical reactions. Extremes of body temperature are dangerous: high temperatures can cause dehydration, heat stroke and death if untreated.

How does the nervous system respond to low temperature? During acute cold exposure, the sympathetic nervous system releases norepinephrine, which results in vasoconstriction, increased blood pressure, and increased heart rate.

Unlocking the Power of Healthy Cooking with "The Healthy Instant Pot Pressure Cooker Cookbook"

With the rise of busy lifestyles, the Instant Pot pressure cooker has become a kitchen game-changer. Its ability to quickly and effortlessly prepare a wide variety of dishes has made it a favorite among health-conscious home cooks. "The Healthy Instant Pot Pressure Cooker Cookbook" takes this convenience to the next level, offering 120 nourishing recipes that cater to a wide range of dietary preferences.

Q: What dietary restrictions does the cookbook address?

A: The cookbook includes recipes that are clean eating, paleo, AIP, gluten-free, vegan, and vegetarian. It provides options for those with food sensitivities, allergies, or specific health goals.

Q: How does the cookbook promote clean eating?

A: The recipes prioritize whole, unprocessed ingredients and limit the use of refined sugars, processed oils, and artificial sweeteners. By focusing on nutrient-rich foods, the cookbook supports optimal health and well-being.

Q: What are some unique features of the paleo and AIP recipes?

A: The cookbook offers paleo- and AIP-friendly recipes that eliminate grains, legumes, dairy, and processed foods. These recipes are designed to reduce inflammation and promote gut health.

Q: How does the cookbook cater to vegans and vegetarians?

A: The cookbook includes a dedicated section of vegan and vegetarian recipes. These dishes are packed with plant-based protein, healthy fats, and fiber, ensuring a satisfying and nutritious meal.

Q: What makes this cookbook a must-have for health-conscious cooks?

A: With its wide range of healthy recipes, clean eating guidelines, and specific dietary considerations, "The Healthy Instant Pot Pressure Cooker Cookbook" empowers readers to create delicious and nutritious meals in minutes. It's the perfect resource for anyone looking to improve their overall health and well-being while enjoying the convenience of the Instant Pot.

South Mountain Community College: Questions and Answers

1. What is South Mountain Community College (SMCC)? SMCC is a public community college located in Phoenix, Arizona. It is part of the Maricopa County Community College District and offers associate degrees, certificates, and career training programs to students of all ages and backgrounds.

2. What programs and services does SMCC offer? SMCC offers over 100 associate degree and certificate programs in various fields, including Arts, Sciences, Business, Healthcare, and Technology. The college also provides support services such as tutoring, counseling, financial aid, and career services.

3. How do I apply to SMCC? Applications for admission to SMCC can be submitted online or in person at the college's admissions office. You will need to provide your transcripts, proof of residency, and a completed application form.

4. What is the cost of attending SMCC? The cost of attending SMCC varies depending on the program and the student's residency status. In-state tuition and fees are approximately \$2,500 per semester, while out-of-state tuition and fees are approximately \$5,000 per semester.

5. What are the benefits of attending SMCC? SMCC offers several benefits, including:

- Affordable tuition and fees

- Small class sizes
- Flexible scheduling options
- On-campus housing and dining
- Career training and job placement assistance

The Success and Failure of Picasso: A Critical Appraisal by John Berger

In his essay "The Success and Failure of Picasso," acclaimed art critic John Berger examines the complex legacy of the iconic artist Pablo Picasso. Berger's analysis delves into both the triumphs and shortcomings of Picasso's work, shedding light on the multifaceted nature of his artistic genius.

1. What is the significance of Picasso's fame?

Berger argues that Picasso's celebrity status obscured the true value of his art. He became a symbol of modernism and an international icon, overshadowing the substance of his work and its potential to challenge the established artistic order.

2. What were Picasso's artistic contributions?

Berger recognizes that Picasso's technical brilliance and innovative style revolutionized the art world. He pioneered new ways of depicting form, space, and time, breaking down traditional conceptions of painting. Berger praises Picasso's early work, particularly the Blue Period and Cubism, as groundbreaking innovations.

3. What were Picasso's artistic limitations?

However, Berger also questions the quality of Picasso's later work. He argues that Picasso's relentless experimentation and prolific output sometimes led to superficiality and a lack of emotional depth. Berger criticizes Picasso's tendency to rely on gimmicks and a superficial celebration of authority.

4. How did Picasso's art reflect the Zeitgeist?

Berger connects Picasso's artistic journey to the social and political upheavals of the 20th century. He sees Picasso's work as a reflection of the fragmentation and alienation experienced by modern society. Picasso's art, in Berger's view, both mirrored and shaped the Zeitgeist of his time.

5. What is Picasso's ultimate legacy?

Berger concludes by acknowledging the paradoxical nature of Picasso's legacy. He argues that Picasso's importance lies not only in his artistic achievements but also in his role as a symbol of the complexities and contradictions of modernity. Picasso's work serves both as a testament to the power and limitations of artistic expression and as a reminder of the ever-evolving nature of art and society.

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