

SCIENCE EXPLORER GRADE 6

CHAPTER 16 ANSWERS

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Science Explorer Grade 6 Chapter 16 Answers: Exploring the Earth's Water

Question 1: What is the difference between groundwater and surface water?

Answer: Groundwater is water that seeps into the ground and fills the spaces between rocks and soil, while surface water is water that flows on the surface of the Earth, such as rivers, lakes, and oceans.

Question 2: How does erosion occur?

Answer: Erosion is the process by which rocks and soil are worn away and transported by wind, water, or ice.

Question 3: What are the different types of glaciers?

Answer: There are two main types of glaciers: continental glaciers, which are large ice sheets that cover vast areas, and alpine glaciers, which are smaller glaciers that flow down mountain slopes.

Question 4: How do streams and rivers form?

Answer: Streams and rivers form when water flows over the land surface and erodes channels. The speed and volume of the water determine the shape and size of the channel.

Question 5: What are the major uses of water resources?

Answer: Water resources are used for drinking, irrigation, transportation, industry, and recreation. It is essential for sustaining life and supporting human activities.

The Fifties: Transforming the Screen, 1950-1959

Q: What characterized the period known as "the fifties" in film history?

A: The fifties was a transformative decade for film, marked by the emergence of new technologies and genres, the rise of youth culture, and the increasing influence of television.

Q: What technological advancements had a significant impact on filmmaking in the fifties?

A: The advent of widescreen formats, such as CinemaScope and VistaVision, and the development of color films revolutionized the cinematic experience. These advancements provided filmmakers with new tools to create more immersive and exciting visuals.

Q: What were some of the most popular genres during the fifties?

A: Westerns, musicals, and science fiction films dominated the box office in the fifties. These genres provided audiences with escapism, entertainment, and a sense of wonder. Additionally, low-budget drive-in movies and horror films gained popularity.

Q: How did youth culture shape films in the fifties?

A: The rise of teenage rebellion and rock and roll music had a profound influence on films. Films such as "Rebel Without a Cause" and "Blackboard Jungle" explored the complexities of adolescent life and the generation gap.

Q: What was the impact of television on the film industry?

A: Television became increasingly popular in the fifties, leading to a decline in movie theater attendance. In response, Hollywood studios invested heavily in widescreen formats and big-budget productions to attract audiences back to the cinema.

The Triune Brain in Evolution: Role in Paleocerebral Functions

Author: Paul D. MacLean **Published:** February 1990

Question 1: What is the triune brain theory?

Answer: The triune brain theory, proposed by Paul D. MacLean, suggests that the human brain can be divided into three evolutionary levels: the reptilian complex, the limbic complex, and the neocortex.

Question 2: What is the role of the reptilian complex?

Answer: The reptilian complex, located at the base of the brain, is responsible for basic survival instincts and functions, such as breathing, heart rate, and fight-or-flight responses. It is believed to have evolved in primitive reptiles.

Question 3: What is the role of the limbic complex?

Answer: The limbic complex, situated around the reptilian complex, is involved in emotions, memory, and motivation. It is believed to have evolved in early mammals and is responsible for behaviors like mating, nurturing, and territorial aggression.

Question 4: What is the role of the neocortex?

Answer: The neocortex, the most developed part of the brain, is responsible for higher cognitive functions such as language, reasoning, and abstract thought. It is believed to have evolved in primates and humans and allows for complex decision-making and problem-solving.

Question 5: How does the triune brain theory explain paleocerebral functions?

Answer: According to MacLean's theory, the paleocerebral functions, which include instincts, emotions, and basic survival mechanisms, are primarily regulated by the reptilian and limbic complexes. These functions work together to ensure the survival and well-being of the individual. The neocortex, while not directly involved in these functions, can modulate and influence them through its connections with the lower brain structures.

Sherwood Human Physiology 8th Edition: Key Questions and Answers

1. What is the role of the autonomic nervous system?

The autonomic nervous system (ANS) regulates involuntary functions such as heart rate, blood pressure, and digestion. It comprises the sympathetic and parasympathetic divisions, which act in opposition to maintain homeostasis.

2. How do hormones differ from paracrine and endocrine signals?

Hormones are chemical messengers carried in the bloodstream to distant target cells. Paracrine signals act on nearby cells within the same tissue, while endocrine signals are released into the bloodstream and travel throughout the body.

3. Describe the mechanisms involved in the transport of substances across cell membranes.

Substances can move across cell membranes through passive or active transport. Passive transport involves diffusion, facilitated diffusion, and osmosis, while active transport requires the use of energy and specific proteins.

4. How does the kidneys maintain fluid and electrolyte balance?

The kidneys regulate the volume and composition of body fluids. They filter blood, reabsorb essential substances, and excrete waste products and excess water. The nephron is the structural and functional unit of the kidney.

5. What are the key features of the immune system?

The immune system protects the body from invading pathogens. It comprises innate and adaptive components. Innate immunity provides immediate but general responses, while adaptive immunity develops over time and targets specific pathogens. Antibodies and T cells play crucial roles in the adaptive immune response.

[the fifties transforming the screen 1950 1959 history of the, the triune brain in evolution role in paleocerebral functions author paul d maclean published on february 1990, sherwood human physiology 8th edition](#)

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