

IGCSE Geography Rivers Practice Test (Sample)

Study Guide



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Questions

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- 1. What role does the riparian zone play in flood prevention?**
 - A. It directs floodwaters to urban areas**
 - B. It absorbs excess water and reduces runoff**
 - C. It increases the speed of water flow downstream**
 - D. It creates barriers to block floodwaters**
- 2. What do we call water that falls back to Earth from clouds in forms such as hail, rain, or snow?**
 - A. Evaporation**
 - B. Precipitation**
 - C. Condensation**
 - D. Infiltration**
- 3. Which human activity is known to significantly impact river systems?**
 - A. Urban landscaping**
 - B. Deforestation**
 - C. Reforestation**
 - D. Agricultural development**
- 4. Which feature is a primary focus of geomorphology?**
 - A. Soil composition**
 - B. Water cycle dynamics**
 - C. Landforms and their formation processes**
 - D. Weather patterns and their effects**
- 5. In geomorphology, what are alluvial deposits?**
 - A. Deposits formed by glacial activity**
 - B. Deposits laid down by flowing water**
 - C. Deposits from volcanic eruptions**
 - D. Deposits formed from wind erosion**
- 6. How does urbanization typically affect river systems?**
 - A. It decreases water temperature**
 - B. It increases water runoff and pollution**
 - C. It promotes biodiversity**
 - D. It reduces sediment flow**

- 7. What does the long profile of a river illustrate?**
- A. The river's water speed at various locations**
 - B. The change in river elevation from source to mouth**
 - C. The width of the river at different points**
 - D. The types of vegetation along the riverbank**
- 8. What is typically found at the mouth of a river?**
- A. A delta where the river meets a larger body of water**
 - B. A source that supplies water to the river**
 - C. Steep canyon formations**
 - D. A series of waterfalls**
- 9. What is the process called when some rainfall strikes plant leaves and branches?**
- A. Surface runoff**
 - B. Interception**
 - C. Infiltration**
 - D. Percolation**
- 10. What is the primary function of a tributary?**
- A. To erase the banks of a river**
 - B. To carry water away from the river**
 - C. To flow into and contribute to a larger river**
 - D. To form lakes and ponds along its path**

Answers

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1. B
2. B
3. B
4. C
5. B
6. B
7. B
8. A
9. B
10. C

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Explanations

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1. What role does the riparian zone play in flood prevention?

- A. It directs floodwaters to urban areas**
- B. It absorbs excess water and reduces runoff**
- C. It increases the speed of water flow downstream**
- D. It creates barriers to block floodwaters**

The riparian zone plays a crucial role in flood prevention by absorbing excess water and reducing runoff. This area consists of the land adjacent to rivers and streams, which is typically characterized by vegetation. The roots of plants found in the riparian zone help to stabilize the soil, allowing for increased infiltration of water rather than contributing to surface runoff. During periods of heavy rainfall or snowmelt, the vegetation can absorb significant amounts of water, which helps to mitigate flooding by slowing down the flow of water into the river system. By acting as a buffer, the riparian zone aids in maintaining water quality while also reducing the likelihood and severity of flood events in nearby areas.

2. What do we call water that falls back to Earth from clouds in forms such as hail, rain, or snow?

- A. Evaporation**
- B. Precipitation**
- C. Condensation**
- D. Infiltration**

The correct term for water that falls back to Earth from clouds in forms such as hail, rain, or snow is precipitation. This process is a key component of the water cycle, where water vapor condenses in the atmosphere to form clouds and then falls to Earth due to gravity. Precipitation can take various forms depending on the temperature and atmospheric conditions, playing a crucial role in replenishing groundwater, rivers, lakes, and other bodies of water. In contrast, the other choices refer to different processes in the water cycle. Evaporation pertains to the process of water turning into vapor and rising into the atmosphere. Condensation is the process by which water vapor cools and changes back into liquid droplets, forming clouds. Infiltration describes the process of water seeping into the ground from the surface, typically after precipitation has occurred. Understanding these distinctions helps clarify the role each process plays in the hydrological cycle.

3. Which human activity is known to significantly impact river systems?

- A. Urban landscaping**
- B. Deforestation**
- C. Reforestation**
- D. Agricultural development**

Deforestation is known to significantly impact river systems as it alters the natural water cycle and increases the risk of flooding and erosion. When trees and vegetation are removed, there is less interception of rainfall, leading to increased surface runoff. This can result in a higher volume of water flowing into rivers after a rainstorm, which may exceed the river's capacity and cause flooding. Additionally, the removal of plant roots, which normally stabilize the soil, can lead to increased soil erosion. This erosion contributes to sedimentation in rivers, which can degrade water quality, disrupt aquatic habitats, and alter river morphology. In contrast, urban landscaping, reforestation, and agricultural development each have impacts on river systems, but they do not have the same immediate and pronounced effects as deforestation. Urban landscaping can affect drainage patterns, but its effects are typically localized. Reforestation usually has a positive impact by restoring natural vegetation, and while agricultural development can lead to issues such as pesticide runoff or nutrient loading, the systematic removal of trees and associated soil impacts seen with deforestation presents a more critical threat to river systems.

4. Which feature is a primary focus of geomorphology?

- A. Soil composition**
- B. Water cycle dynamics**
- C. Landforms and their formation processes**
- D. Weather patterns and their effects**

Geomorphology is the branch of geography that specifically studies landforms and the processes that shape them over time. This field of study investigates how various natural forces, such as erosion, weathering, and tectonic activity, contribute to the creation and alteration of landforms like mountains, valleys, rivers, and deserts. By focusing on the mechanisms that drive the development and change of these physical features, geomorphology helps us understand the landscape and its evolution. Soil composition pertains to the types of materials that make up the soil, which is more relevant to soil science than geomorphology. Water cycle dynamics involve the movement and distribution of water within the Earth's systems, which, while important, does not center solely on landforms. Weather patterns and their effects deal with meteorology and climatology, focusing on atmospheric conditions rather than the physical characteristics and processes that shape the Earth's surface. In contrast, the study of landforms and their formation processes is at the very heart of geomorphology, making it the correct focus of this question.

5. In geomorphology, what are alluvial deposits?

- A. Deposits formed by glacial activity
- B. Deposits laid down by flowing water**
- C. Deposits from volcanic eruptions
- D. Deposits formed from wind erosion

Alluvial deposits refer to the material that is sorted and deposited by the action of flowing water, typically in river environments. These deposits often consist of sediments such as sand, silt, clay, and gravel, which are carried and eventually dropped when the velocity of the water decreases. This process commonly occurs in floodplains, riverbanks, and deltas, where rivers slow down and spread out. The characteristic feature of alluvial deposits is that they are formed through the sediment transport and deposition processes associated with moving water, making them critical in understanding river dynamics and landscape formation in river valleys. While glacial activity produces distinct deposits known as till, volcanic eruptions result in different types of geological deposits such as ash and lava flows, and wind erosion mainly leads to aeolian deposits, none of these processes involve the movement and sorting of sediments by water, which is the defining characteristic of alluvial deposits.

6. How does urbanization typically affect river systems?

- A. It decreases water temperature
- B. It increases water runoff and pollution**
- C. It promotes biodiversity
- D. It reduces sediment flow

Urbanization typically has significant impacts on river systems, primarily because it alters the natural landscape and hydrology. As cities expand, vegetation is removed, and impervious surfaces like roads and buildings increase, which disrupt the natural flow of water. This alteration leads to increased water runoff, as rainfall and melting snow do not have the opportunity to percolate into the ground but instead flow directly into rivers. Furthermore, urban areas tend to introduce a variety of pollutants, including chemicals from vehicles, oils, and waste materials, into the river systems. As the surfaces become impermeable, the likelihood of these contaminants reaching waterways significantly rises, leading to poorer water quality. This combination of increased runoff and pollution can severely impact the health of river ecosystems and the organisms that inhabit them. In contrast, other effects such as decreased water temperature, promotion of biodiversity, or reduction of sediment flow do not directly align with the typical consequences of urbanization. For instance, while it could be argued that some urban areas might incorporate parks that mitigate temperature, the overall trend in urbanized environments shows an increase in water temperature due to runoff from heated surfaces. Similarly, urbanization tends to negatively affect biodiversity due to habitat destruction, rather than promoting it. Lastly, sediment flow may be altered,

7. What does the long profile of a river illustrate?

- A. The river's water speed at various locations**
- B. The change in river elevation from source to mouth**
- C. The width of the river at different points**
- D. The types of vegetation along the riverbank**

The long profile of a river depicts the gradient or slope of the river from its source to its mouth, illustrating how elevation changes along its course. This profile typically shows a decrease in height as the river flows downstream, starting from the higher elevations at the source and gradually reaching the lower elevations near the mouth, where it meets another body of water, such as an ocean or lake. The long profile is crucial for understanding various river processes, including erosion and sediment transport, as these processes are influenced by the elevation and gradient of the river. While options related to water speed, river width, and vegetation may provide valuable information about different characteristics of the river, they do not specifically convey the essential information about how elevation decreases from source to mouth, which is the fundamental aspect illustrated by the river's long profile.

8. What is typically found at the mouth of a river?

- A. A delta where the river meets a larger body of water**
- B. A source that supplies water to the river**
- C. Steep canyon formations**
- D. A series of waterfalls**

At the mouth of a river, it is typically where the river flows into a larger body of water, such as an ocean, sea, or lake. This transition often leads to the formation of a delta, which is a landform created by the deposition of sediment carried by the river as the flow velocity decreases upon meeting standing water. The sediment accumulates over time, leading to the distinctive landforms and ecosystems often seen at deltas. Other possibilities, such as canyons or waterfalls, are usually found upstream or in the river's middle course and are not characteristic of the river's mouth. The source of the river is located at the opposite end of the river system, where the river begins, making options that refer to sources irrelevant in this context. Understanding the geographical formations and processes at different stages of a river's journey is crucial for recognizing how river systems interact with their environments.

9. What is the process called when some rainfall strikes plant leaves and branches?

- A. Surface runoff**
- B. Interception**
- C. Infiltration**
- D. Percolation**

The process when rainfall strikes plant leaves and branches is called interception. This occurs when precipitation falls onto vegetation rather than reaching the ground directly. Interception can affect how much water enters the soil, as the water captured by leaves may eventually evaporate back into the atmosphere or drip onto the ground. This is important for understanding the water cycle's dynamics, especially in forested areas, as it influences both soil moisture levels and the amount of water available for plants.

Surface runoff refers to water that flows over the ground after rainfall, not water that is intercepted by leaves. Infiltration is the process by which water soaks into the soil from the surface, while percolation is the movement of water through the soil layers. Both infiltration and percolation occur after water has reached the ground, highlighting the significance of interception in managing water before it ever touches the soil.

10. What is the primary function of a tributary?

- A. To erase the banks of a river**
- B. To carry water away from the river**
- C. To flow into and contribute to a larger river**
- D. To form lakes and ponds along its path**

The primary function of a tributary is to flow into and contribute to a larger river. Tributaries are smaller streams or rivers that feed into a main river, adding water and nutrients to the larger system. This process enhances the overall flow and volume of the main river, playing a vital role in the hydrological cycle. By delivering additional water, tributaries can influence the ecosystem, support diverse habitats, and affect sediment transport within the river network. Choosing this answer shows an understanding of the interconnectedness of river systems, where tributaries serve as important contributors to the health and sustainability of larger water bodies.