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Tsunamis Quiz Answer Key PDF

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What is the primary cause of most tsUNAMIs?

A. Hurricanes

B. Underwater earthquakes ✓

C. Tidal waves

D. Coastal erosion

Which of the following regions are particularly vulnerable to tsUNAMIs? (Select all that apply)

A. The Mediterranean Sea

B. The Pacific Ring of Fire ✓

C. The west coast of the Americas ✓

D. The Sahara Desert

Which of the following is NOT a cause of tsUNAMIs?

A. Underwater volcanic eruptions

B. Landslides

C. Solar flares ✓

D. Meteoroid impacts

In what ways can communities increase their resilience to future tsUNAMIs?

Communities can increase their resilience to future tsUNAMIs by developing and maintaining early warning systems, conducting community education and awareness programs, establishing clear evacuation routes, and investing in resilient infrastructure.

Which ocean is most commonly associated with tsUNAMIs due to its seismic activity?

A. Atlantic Ocean

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B. Indian Ocean

C. Pacific Ocean ✓

D. Arctic Ocean

How do scientists use predictive models to assess tsUNAMI risks?

Scientists use predictive models to assess tsunami risks by simulating the conditions that lead to tsUNAMIs, analyzing wave behavior, and predicting the potential impact on coastal areas.

Which year did the devastating Indian Ocean tsUNAMI occur?

A. 1999

B. 2004 ✓

C. 2011

D. 2015

Describe the role of ocean buoys in tsUNAMI detection and warning systems.

Ocean buoys are equipped with sensors that measure wave height, water pressure, and other oceanographic data, allowing them to detect the initial signs of a tsunami and relay this information to warning centers for timely alerts.

What are key elements of tsUNAMI preparedness? (Select all that apply)

A. Knowledge of evacuation routes ✓

B. StockPiling food

C. Regular drills ✓

D. Building high walls along the coast

Which of the following is a key component of tsUNAMI warning systems?

A. Weather balloons

B. Ocean buoys ✓

C. Satellite images

D. Wind turbines

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What is the typical speed at which tsUNAMI waves can travel across the ocean?

A. 50-100 km/h
B. 100-200 km/h
C. 200-300 km/h
D. 500-700 km/h ✓

What improvements have been made due to lessons learned from past tsUNAMIs? (Select all that apply)

A. Enhanced early warning systems ✓
B. Better predictive models ✓
C. Increased solar panel usage
D. Improved evacuation plans ✓

Which of the following are characteristics of tsUNAMI waves? (Select all that apply)

A. Short wavelengths
B. Long wavelengths ✓
C. High speed in deep water ✓
D. Decrease in height near the coast

What are some secondary effects of tsUNAMIs? (Select all that apply)

A. Long-term environmental changes ✓
B. Economic challenges ✓
C. Increased volcanic activity
D. Social displacement ✓

Explain how underwater earthquakes can generate tsUNAMIs.

An underwater earthquake generates tsUNAMIs by displacing water due to the sudden movement of the ocean floor, creating waves that can travel across the ocean and increase in height as they reach shallower waters.

Which events can trigger a tsUNAMI? (Select all that apply)

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A. Underwater earthquakes ✓

B. Solar eclipses

C. Underwater landslides ✓

D. Volcanic eruptions ✓

Which country was most affected by the 2011 Tohoku tsUNAMI?

A. Indonesia

B. India

C. Japan ✓

D. Thailand

What lessons were learned from the 2004 Indian Ocean tsUNAMI that have improved current tsUNAMI preparedness?

Key lessons learned include the establishment of the Indian Ocean Tsunami Warning System, enhanced community awareness and education programs, and improved international collaboration for disaster response.

What is the primary hazard associated with tsUNAMIs?

A. High winds

B. FloodING ✓

C. Lightning

D. Hail

Discuss the long-term environmental impacts that a tsUNAMI can have on a coastal region.

The long-term environmental impacts of a tsunami on a coastal region include the destruction of habitats such as mangroves and coral reefs, salinization of freshwater resources due to saltwater intrusion, alteration of coastal landforms, and disruption of local ecosystems, which can lead to a decline in biodiversity.

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