

Name: _____ Date: _____

Answer Key: Harnessing the Anthropocene: 10th Grade Geography Quiz

Sophomores identify human modifications like terrace farming and the Great Man-Made River while analyzing how societies adapt to diverse global biomes.

1. Which agricultural technique is a classic example of humans modifying steep mountainous terrain to prevent erosion and create arable land?

Answer: B) Terrace farming

Terrace farming, used extensively in the Andes and Southeast Asia, is a physical modification of the landscape to make steep slopes suitable for agriculture.

2. Building earthquake-resistant skyscrapers in San Francisco is an example of human adaptation to the environment.

Answer: A) True

Adaptation involves changing human behavior or technology to survive natural conditions, such as seismic activity, without necessarily changing the environment itself.

3. The use of _____ in the Colorado River basin allows humans to redirect water to desert cities like Phoenix, showing heavy dependence on diverted resources.

Answer: C) Dams and aqueducts

Dams and aqueducts are the primary infrastructure used to capture and transport water to regions where it is not naturally abundant.

4. Which of the following is a negative consequence of modifying the environment through large-scale monoculture farming?

Answer: B) Reduction in soil nutrients

Monoculture, or growing only one type of crop, depletes specific soil nutrients and often requires significant chemical intervention to maintain yields.

5. The 'Great Man-Made River' project in Libya is an example of adaptation because it changes how people dress for the heat.

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Answer: B) False

This project is an example of modification, as it involves a massive engineering feat to pipe water from underground aquifers to the surface for human use.

6. When a city experiences the 'Urban Heat Island' effect, it is a _____ of replacing natural vegetation with concrete and asphalt.

Answer: D) Unintended consequence

The Urban Heat Island effect is an unintended side effect (consequence) of modifying the environment with heat-absorbing materials.

7. Which group's traditional lifestyle most clearly demonstrates 'dependence' on the seasonal flooding of a river system?

Answer: A) Ancient Egyptian civilizations

Ancient Egyptians relied entirely on the predictable flooding of the Nile River to deposit nutrient-rich silt for their crops.

8. The development of _____ allows humans to inhabit regions with extreme temperatures, such as the American Southwest and the Middle East.

Answer: B) Air conditioning

Air conditioning is a technological adaptation that has allowed for massive population growth in hot, arid climates.

9. Overfishing in the Grand Banks of Newfoundland is a consequence resulting from human dependence on marine resources.

Answer: A) True

Excessive reliance on a natural resource without sustainable practices often leads to negative environmental consequences like the collapse of fish stocks.

10. The 'Green Wall' initiative in Africa, which plants trees to stop the Sahara's expansion, is an example of:

Answer: B) Intentional environmental modification

By planting millions of trees, humans are actively modifying the landscape to combat desertification and restore ecological balance.

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