

Geographical Perspectives on Climate Change

Climate Change · Answer Key · 8 Questions

1. Which region of the world has experienced 'Arctic amplification,' leading to warming at more than twice the global average rate?

- A) The Sahara Desert
- B) The Arctic**
- C) The Amazon Basin
- D) The Tibetan Plateau

2. What is the primary physical process causing the observed rise in global mean sea levels beyond thermal expansion?

- A) Increased volcanic activity
- B) Melting of land-based ice sheets and glaciers**
- C) Changes in ocean salinity
- D) Increased frequency of El Niño events

3. The 'Great Barrier Reef' is located in which sea, making it highly susceptible to coral bleaching due to rising ocean temperatures?

- A) Caribbean Sea
- B) Coral Sea**
- C) Red Sea
- D) North Sea

4. Which country currently holds the largest share of the world's remaining tropical rainforest, vital for carbon sequestration?

- A) Brazil**
- B) Indonesia
- C) Democratic Republic of the Congo
- D) Peru

5. What is the term for the process where permafrost thaws, potentially releasing large amounts of methane and carbon dioxide into the atmosphere?

- A) Desertification
- B) Carbon sequestration
- C) Active layer thickening**
- D) Glacial retreat

6. In which mountain range does the 'Third Pole' ice mass reside, which provides water for the major river systems of Asia?

- A) The Andes
- B) The Alps
- C) The Himalayas**
- D) The Rocky Mountains

7. Rising temperatures are causing the 'Sahel' region, a transition zone in Africa, to face increased risks of what geographical phenomenon?

- A) Urbanization
- B) Desertification**
- C) Tectonic uplift
- D) Glaciation

8. The Maldives is particularly vulnerable to climate change primarily because of its low:

- A) Average elevation above sea level**
- B) Distance from the equator
- C) Annual rainfall
- D) Population density