

## CHAPTER-3 | Journey to the End of the Earth

## QUIZ-01

1. What was the name of the Russian research vessel the author travelled on?

- A. Akademik Lomonosov
- B. Akademik Shokalskiy
- C. Akademik Vostok
- D. Akademik Fedorov (B)

**Explanation:** The author mentions that she was aboard the Akademik Shokalskiy while heading towards Antarctica.

2. How many time zones did the author cross on her journey to Antarctica?

- A. Five
- B. Seven
- C. Nine
- D. Eleven (C)

**Explanation:** The journey involved crossing nine time zones, along with other checkpoints and bodies of water.

3. What ancient supercontinent did India and Antarctica once belong to?

- A. Pangaea
- B. Laurasia
- C. Gondwana
- D. Rodinia (C)

**Explanation:** India and Antarctica were once part of Gondwana, a southern supercontinent.

4. Why is Antarctica considered an ideal place to study climate change?

- A. It has abundant vegetation
- B. It holds ancient carbon records in its ice layers
- C. It has extreme volcanic activity
- D. It hosts the largest rainforests (B)

**Explanation:** Antarctica's ice cores contain half-million-year-old carbon records, which are vital to studying the Earth's climate history.

5. What unique environmental condition did the author experience during the austral summer?

- A. Continuous darkness
- B. Heavy rainfall
- C. 24-hour daylight
- D. Monsoon winds (C)

**Explanation:** The austral summer in Antarctica features continuous 24-hour daylight, described as surreal by the author.

6. What is the key message in the metaphor of the phytoplankton?

- A. Focus on marine animals
- B. Climate change only affects small creatures
- C. Taking care of small things affects the big picture
- D. The ocean is unaffected by human activity (C)

**Explanation:** The story of phytoplankton serves as a metaphor to emphasize how small ecological components can impact the entire global system.

7. What did Geoff Green aim to achieve with the Students on Ice program?

- A. Train retired scientists
- B. Encourage tourism to Antarctica
- C. Offer life-changing environmental education to youth
- D. Start commercial shipping routes (C)

**Explanation:** Geoff Green started the program to educate young students and inspire future policy-makers to act for the planet.

8. What was the author's emotional response upon first seeing Antarctica?

- A. Fear and anxiety
- B. Boredom
- C. Relief followed by wonder
- D. Disappointment (C)

**Explanation:** After over 100 hours of travel, the author first felt relief and then profound wonder upon seeing the vast, white Antarctic landscape.

9. What ecological concern is raised by ozone depletion in Antarctica?

- A. Iceberg formation
- B. Decline in tourism
- C. Impact on phytoplankton productivity
- D. Increase in desert areas (C)

**Explanation:** Depletion in the ozone layer affects phytoplankton, which are crucial to the marine food chain and global carbon cycle.

10. What did the author and others do when the ship got stuck near Tadpole Island?

- A. Waited for rescue
- B. Conducted research underwater
- C. Walked on the frozen ocean surface
- D. Flew back immediately (C)

**Explanation:** They climbed down and walked on the ocean, standing on a metre-thick ice sheet above 180 metres of water.