

Scientific Wonders of Exploration

Geography And Earth Science · Practice Test · 10 Questions

1. Which layer of the Earth's atmosphere do mountain climbers primarily traverse while ascending the world's highest peaks?

- A) Mesosphere
- B) Stratosphere
- C) Troposphere
- D) Thermosphere

2. What is the primary scientific reason explorers need more oxygen as they climb higher altitudes?

- A) The air pressure decreases
- B) The temperature increases
- C) Gravity becomes stronger
- D) There is more nitrogen

3. Which ocean contains the Mariana Trench, the deepest part of the world's oceans explored by submersibles?

- A) Atlantic Ocean
- B) Indian Ocean
- C) Arctic Ocean
- D) Pacific Ocean

4. What scientific instrument is used by explorers to determine direction based on the Earth's magnetic field?

- A) Barometer
- B) Compass
- C) Sextant
- D) Thermometer

5. Which continent is scientifically defined as a desert because it receives very little annual precipitation?

- A) Africa
- B) Australia
- C) Antarctica
- D) South America

6. What do oceanographers use to measure the depth of the ocean floor during exploration missions?

- A) Sonar
- B) Radar
- C) Telescopes
- D) Spectroscopy

7. The Great Barrier Reef, a popular site for underwater exploration, is primarily composed of what living organism?

- A) Basalt rock
- B) Coral polyps
- C) Volcanic glass
- D) Seaweed

8. Which gas makes up the majority of the Earth's atmosphere, which explorers must account for during deep-sea diving?

- A) Oxygen
- B) Carbon Dioxide
- C) Nitrogen
- D) Helium

9. What is the name of the imaginary line that divides the Earth into the Northern and Southern Hemispheres?

- A) Prime Meridian
- B) Tropic of Cancer
- C) Equator
- D) Arctic Circle

10. Explorers studying volcanoes focus on the study of which type of rock formed from cooled magma?

- A) Igneous
- B) Sedimentary
- C) Metamorphic
- D) Limestone