

Africa's Shifting Continents, Light Discoveries, and Health Innovations This W

Sub-Saharan Africa Science · Answer Key · 6 Questions

1. Scientists have discovered a new way to control light without mirrors or special lenses. This breakthrough, involving researchers from the University of Witwatersrand, could impact which of the following fields?

- A) Quantum computing, data transmission, and medical testing**
- B) Agriculture and renewable energy
- C) Astronomy and space exploration
- D) Art history and archaeology

2. Geologists are studying evidence suggesting a new tectonic plate boundary may be forming in Sub-Saharan Africa. Which region in Zambia is showing signs of this geological activity?

- A) Kafue Rift**
- B) East African Rift
- C) Victoria Falls
- D) Serengeti Plains

3. A recent summit in Nairobi highlighted the need for greater African involvement in global health research. Which two fast-growing fields were emphasized for African-led innovation?

- A) Genomics and women's health research**
- B) Cardiology and neurology
- C) Oncology and immunology
- D) Pediatrics and geriatrics

4. Researchers are investigating an ancient underground formation beneath Africa that appears to be releasing very old material. This discovery is related to what geological process?

- A) Tectonic plate movement
- B) Volcanic activity**
- C) Seismic wave propagation
- D) Glacial erosion

5. A study examining clinical trials found that a very small percentage are conducted exclusively in Africa. What is the approximate percentage of clinical trials conducted solely in Africa?

A) 3.9%

B) 15%

C) 30%

D) 50%

6. Scientists at Stellenbosch University have achieved a record in establishing the longest secure communication link using what technology?

A) Quantum satellite communications

B) 5G mobile networks

C) Fiber optic cables

D) Satellite radio transmission