

Global Computing Infrastructure and Geography

Computer Science And World Geography · Practice Test · 20 Questions

1. Which specific island nation serves as a primary hub for trans-Pacific fiber-optic cables connecting the US to Asia and Australia?

- A) Fiji
- B) Guam
- C) Nauru
- D) Kiribati

2. In which country is the world's northernmost Tier IV data center located, leveraging geothermal energy and subarctic cooling?

- A) Norway
- B) Canada
- C) Iceland
- D) Finland

3. The first underwater fiber-optic cable crossing the Atlantic, TAT-8, landed in which town in the United Kingdom?

- A) Bude
- B) Dover
- C) Hastings
- D) Penzance

4. Which nation currently hosts the largest number of individual undersea cable landing points in the Southern Hemisphere?

- A) Brazil
- B) South Africa
- C) Australia
- D) Chile

5. What is the primary reason the 'Internet backbone' in the Middle East is heavily concentrated around the Red Sea and the Suez Canal?

- A) Geopolitical stability
- B) Avoidance of oceanic pressure
- C) Direct route between Europe and Asia
- D) Proximity to satellite arrays

6. Which city is home to the DE-CIX Frankfurt, historically one of the world's highest-throughput Internet Exchange Points?

- A) Berlin
- B) Frankfurt
- C) Hamburg
- D) Munich

7. The 'Great Firewall of China' infrastructure relies heavily on BGP hijacking detection at which specific national gateway?

- A) Beijing
- B) Shanghai
- C) Guangzhou
- D) All of the above

8. Which archipelago nation recently completed the 'Palapa Ring' project to provide high-speed broadband to its thousands of remote islands?

- A) Philippines
- B) Indonesia
- C) Japan
- D) Maldives

9. The trans-Arctic fiber cable project (Far North Fiber) aims to connect Europe to Asia via the Northwest Passage, bordering which major Arctic nation?

- A) Russia
- B) Denmark (Greenland)
- C) United States
- D) Sweden

10. Which country maintains the 'Svalbard Undersea Cable System,' the only fiber connection to the world's northernmost permanent settlement?

- A) Norway
- B) Russia
- C) Canada
- D) Iceland

11. In the history of ARPANET, which university was the site of the second host connection, located in the San Francisco Bay Area?

- A) UC Berkeley
- B) Stanford University
- C) UCLA
- D) Caltech

12. The TEAMS (The East African Marine System) cable was designed to reduce internet latency for which country?

- A) Kenya
- B) Ethiopia
- C) Sudan
- D) Uganda

13. Which South American country is known for having the highest penetration of IXP (Internet Exchange Point) infrastructure in the region?

- A) Argentina
- B) Brazil
- C) Chile
- D) Colombia

14. What is the main geographical challenge for installing fiber-optic cables across the 'Ring of Fire' in the Pacific Ocean?

- A) Extreme water depth
- B) Seismic activity
- C) High salinity
- D) Lack of coastal stations

15. The FLAG (Fiber-Optic Link Around the Globe) cable system connects Europe to Asia and touches which major peninsula?

- A) Iberian Peninsula
- B) Malay Peninsula
- C) Kamchatka Peninsula
- D) Scandinavian Peninsula

16. Which country is the primary location for the 'Equinix' data centers that manage a significant portion of global financial data traffic?

- A) United States
- B) Singapore
- C) Switzerland
- D) United Kingdom

17. Which island nation in the Indian Ocean has been increasingly utilized as a secure transit point for data cables between India and Africa?

- A) Mauritius
- B) Seychelles
- C) Maldives
- D) Sri Lanka

18. The Southern Cross Cable Network provides critical high-speed connectivity specifically between Australia, New Zealand, and which region?

- A) North America
- B) Europe
- C) South America
- D) Antarctica

19. Which European country famously stores a massive amount of its digital records in a repurposed Cold War-era mountain bunker?

- A) Switzerland
- B) Austria
- C) Finland
- D) Poland

20. What is the primary purpose of the 'Google Global Cache' servers located in various geographic regions?

- A) Data encryption
- B) Reducing latency for local content delivery
- C) Long-term archival storage
- D) Backing up the main US servers