

Global Computing Infrastructure and Geography

Computer Science And World Geography · Answer Key · 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