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Welcome to the Final Exam for IT Fundamentals for Everyone. This 20-question exam will assess your knowledge of the concepts introduced in the five previous modules.

1. Select the answers that fill in the banks. The four functions of computing are
    _____, _____, _____, and _____.

    1 / 1 point

    ○ input, processing, transformation, storage

    ◉ input, processing, output, storage

    ○ intake, processing, output, retention

    ○ input, production, output, retention

    ✓ **Correct**
    Correct! The four computing functions are input, processing, output, and storage.

2. While multiple types of computing devices can access networks, only
    _____ are generally installed as stand-alone units on networks,
    enabling shared access to files, data, and media such as movies, videos, and
    sound clips.

    1 / 1 point

    ○ Internet of Things (IoT) devices

    ○ mobile devices

    ○ workstations

    ◉ servers

⊘ **Correct**

Correct! Only servers are generally installed as stand-alone network units, enabling shared access to files, data, and media such as movies, videos, and sound clips.

3. Which of the following statements accurately describes a computer's output device?

1 / 1 point

◯ An output device is software that converts information into a machine-readable form.

◯ An output device is software that converts information into a human-readable form.

◉ An output device is hardware that converts information into a human-readable form.

◯ An output device is hardware that converts information into a machine-readable form.

⊘ **Correct**

Correct! A computer's output device is hardware that converts information into a human-readable or human-interpretable form.

4. What type of port was built by a consortium of seven companies to replace the many varieties of connectors available in the market with a simple-to-use, fast connector now used for multiple devices and peripherals?

1 / 1 point

◯ The FireWire port

◯ The Thunderbolt port

◯ The eSATA port

◉ The USB port

⊘ **Correct**

Correct! A consortium of seven companies developed the USB connector and port.

5. Which one of the following is associated with closed source software?   **1 / 1 point**

- ◉ A company or individual owns the rights to the source code and software.

- ○ The source code can be edited, modified, and redistributed.

- ○ Users don't have to pay to download, install, or use the software.

- ○ It can sometimes be used in commercial software, usually developed for profit, but it can also include freeware.

⊘ **Correct**
Correct! Closed software works by a company or individual owning the rights to the source code and software.

6. What are small pieces of text-based data that contain information about your computer when browsing a website?   **1 / 1 point**

- ◉ Cookies

- ○ IP addresses

- ○ Browser caches

- ○ Proxy servers

⊘ **Correct**
Correct! Cookies are small pieces of text-based data that contain information about your computer when browsing a website.

7. Which three of the following are reasons to update your web browser? (Select 3)   **1 / 1 point**

- ☑ To take advantage of new browser features

⊘ **Correct**
Correct! Taking advantage of new browser features is a reason to update your web browser.

- ☑ To improve security

⊘ **Correct**
Correct! Improving security is a reason to update your web browser.

☐ To adhere to legal requirements

☑ To enhance website compatibility

⊘ **Correct**
Correct! Improving website compatibility is a reason to update your web browser.

8. Which one of the following is an example of an interpreted programming language?

1 / 1 point

○ C

○ C++

○ Java

◉ JavaScript

⊘ **Correct**
Correct! JavaScript is an example of an interpreted programming language.

9. How would you define logical topology?

1 / 1 point

○ It is the way network devices are physically connected.

◉ It is the way data flows around the devices on a network.

○ It is a ring-shaped series of wires used to connect different hardware devices.

○ It is a single network path that devices can plug into.

⊘ **Correct**
Correct! Logical topology is how data flows across the physically connected devices on a network.

10. What happens when a server fails in a tree topology?

1 / 1 point

○ Cables fail

○ The whole network fails

○ Nothing happens

◉ Connected devices fail

✓ **Correct**
Correct! When a server fails in a tree topology, connected devices fail.

11. What kind of wireless network uses LTE?   **1 / 1 point**

○ WMAN

○ WLAN

◉ WWAN

○ WPAN

✓ **Correct**
Correct! LTE is used in WWANs. LTE, which stands for Long-Term Evolution, is a converged 4G standard supported by GSM and CDMA network providers.

12. Which of the following cable types can work over the longest distance?   **1 / 1 point**

◉ Fiber optic

○ Ethernet

○ Coaxial

○ Serial

✓ **Correct**
Correct! Fiber optic cables are used in wide area networks, or WANs, because they work long distances without much interference.

13. Which of the following is one of the categories used in multifactor authentication?

1 / 1 point

- ⦿ Something you have
- ◯ Somewhere you are
- ◯ Someone you know
- ◯ Something you can do

  ⊘ **Correct**

  Correct! The three categories used for multifactor authentication are something you know, something you have, and something you are.

14. What does SSL stand for?

1 / 1 point

- ◯ Straight socket loop
- ⦿ Secure sockets layer
- ◯ Special security license
- ◯ Secure space layer

  ⊘ **Correct**

  Correct! SSL stands for secure sockets layer, which is an encryption security protocol.

15. Which of the following is how a web browser is vulnerable to a breach?

1 / 1 point

- ◯ Web browsers are impervious to exploitation.
- ◯ Leaving the browser open after it has become infected.
- ⦿ A browser plug-in can be exploited.
- ◯ A virus can be sent through the monitor.

  ⊘ **Correct**

  Correct! A browser plug-in could download malware, adware, and Trojan horse viruses. Malicious browser extensions can redirect your search traffic elsewhere.

16. Which of the following webpage addresses indicate that SSL secures the browsing session?   **1 / 1 point**

○ The web address begins with http://

○ The web address begins with ssl.http://

○ The web address begins with http.ssl://

◉ The web address begins with https://

✓ **Correct**
Correct! Websites that begin with HTTPS indicate that they're using SSL to encrypt the session. Traffic flowing to and from the site is secure. SSL does not, however, guarantee that the site has not been compromised.

17. Which of the following is a risk that businesses run if they do not adopt Cloud storage?   **1 / 1 point**

◉ Lack of decision-making capacity

○ Data security

○ Compliance issues

○ Lack of standardization

✓ **Correct**
Correct! Businesses that do not integrate cloud storage into their business strategy run the risk of lacking the speed, agility, innovation, and decision-making capacities needed to be competitive and their ability to respond to digital disruption.

18. Which characteristic of cloud computing involves consolidating resources to serve multiple consumers efficiently?   **1 / 1 point**

◉ Resource pooling

○ Broad Network Access

○ Leveraging Internet cloud services

○ On-demand self-service

⊘ **Correct**
Correct! With resource pooling, consumers save on costs when using a shared model.

19. What are two benefits of using cloud computing?   **1 / 1 point**

○ Purchasing off-the-shelf software and upgrades, and competitive advantage

○ Purchasing off-the-shelf software and upgrades, and flexibility and efficiency

○ Flexibility and efficiency, and diversity of standardization

⦿ Competitive advantage, and flexibility and efficiency

⊘ **Correct**
Correct! Cloud services make some of the most innovative technologies available to enterprises while managing the underlying infrastructure, enabling organizations to focus on their priorities. Users can scale services as needed and customize applications.

20. Which of the following best describes the three-way relationship between blockchain, AI, and the Cloud?   **1 / 1 point**

○ The Cloud is a necessary component for integrating blockchain and AI technologies.

○ Blockchain and AI are utilized within the Cloud to enhance data security and processing capabilities.

○ Blockchain technology enables AI and the Cloud to collaborate seamlessly for advanced data analytics and storage.

⦿ AI and the Cloud are used to support blockchain applications and facilitate decentralized data management.

⊘ **Correct**

Correct! Blockchain provides the trusted, decentralized source of truth, AI powers the analytics and decisions from the collected data, and Cloud provides the globally distributed, scalable, and cost-efficient computing resources to support both technologies.