Linux+ and LPIC-1 Guide to Linux Certification 6th edition Eckert Test Bank

SKU: 9798214000800-TEST-BANK

Name:_____ Class:_____ Date:_____

Mod 01 Introduction to Linux

Multiple Choice

1. The United States Air Force was able to install Linux on a popular gaming console and then connect over 1,700 of these systems together to work as one big supercomputer. Which of the following types of technologies did they implement?

a. herding
b. cloud computing
c. group computing
d. clustering

ANSWER: d
RATIONALE: When multiple, or many, computers are joined together to work as one, it is called a cluster.
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Eckert.Linux+6e.24.1.5 - Explain the common uses of Linux in industry today.
TOPICS: 1.5 Common Uses of Linux
KEYWORDS: Bloom's: Understand
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2. Which of the following terms describes a type of useful and legitimate software that is distributed by a developer at no charge and with no source code?

a. shareware
b. freeware
c. malware
d. tryware

ANSWER: b
RATIONALE: Freeware is a type of software that is distributed for free by a software developer, but the source code is not distributed along with it. Shareware is similar to freeware but requires payment after a period of time, malware is malicious software, and tryware does not exist.
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Eckert.Linux+6e.24.1.2 - Outline the key features of the Linux operating system.
TOPICS: 1.2 The Linux Operating System
KEYWORDS: Bloom's: Remember
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3. What term refers to a person that manages the Linux components that allow developers to push new versions

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of their software to the cloud?

a. orchestrator
b. build automator
c. integration specialist
d. DevOp

ANSWER: d
RATIONALE: The people who manage the workflow whereby software is added to a cloud environment are called DevOps because they are system operators (ops) that support web app development (dev).
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Eckert.Linux+6e.24.1.6 - Describe how Linux is used in the cloud.
ACCREDITING STANDARDS: Eckert.XK0-005.24.3.4 - Summarize common infrastructure as code technologies.
TOPICS: 1.6 Linux in the Cloud
KEYWORDS: Bloom's: Remember
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4. Which of the following types of cloud delivery models would a containerized web app be considered?

a. SaaS
b. PaaS
c. IaaS
d. MaaS

ANSWER: b
RATIONALE: Web apps that are hosted within containers are delivered using a container runtime on an underlying operating system platform and referred to as Platform as a Service, or PaaS.
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Eckert.Linux+6e.24.1.6 - Describe how Linux is used in the cloud.
TOPICS: 1.6 Linux in the Cloud
KEYWORDS: Bloom's: Remember
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5. Which of the following services does an MTA provide?

a. web
b. mail

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c. DNS
d. certificate

ANSWER: b
RATIONALE: Mail Transfer Agents (MTAs) provide email routing on Linux systems.
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Eckert.Linux+6e.24.1.5 - Explain the common uses of Linux in industry today.
ACCREDITING STANDARDS: Eckert.LPIC-1.24.108.3 - Mail Transfer Agent (MTA) basics.
TOPICS: 1.5 Common Uses of Linux
KEYWORDS: Bloom's: Remember
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6. What term is used to refer to a specific variety of UNIX?

a. distribution
b. version
c. flavor
d. platform

ANSWER: c
RATIONALE: Each UNIX operating system is called a unique flavor of UNIX. For example, FreeBSD and macOS are two different flavors of UNIX.
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Eckert.Linux+6e.24.1.3 - Describe the origins of the Linux operating system.
TOPICS: 1.3 The History of Linux
KEYWORDS: Bloom's: Remember
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7. Which of the following types of servers can be used to cache requested Internet resources so that they can be more quickly delivered to users requesting the same resource while at the same time reducing the burden on the external network connection to the Internet for an organization?

a. file server
b. DNS server
c. proxy server
d. DHCP server

ANSWER: c
RATIONALE: A proxy server requests Internet resources on a user's behalf and can be configured to

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cache results so that multiple users requesting the same content don't require contacting the resource individually.

POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Eckert.Linux+6e.24.1.5 - Explain the common uses of Linux in industry today.
TOPICS: 1.5 Common Uses of Linux
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8. Which of the following types of encryption uses a pair of keys known as public and private?

a. symmetric
b. asymmetric
c. SHA1 hashing
d. message digest

ANSWER: b
RATIONALE: Asymmetric encryption uses a public/private key pair. Symmetric encryption uses a single key for encryption and decryption, while SHA1 hashing (also called a message digest) does not use keys and is used to provide data validation only.
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Eckert.Linux+6e.24.1.5 - Explain the common uses of Linux in industry today.
ACCREDITING STANDARDS: Eckert.XK0-005.24.2.1 - Summarize the purpose and use of security best practices in a Linux environment.
TOPICS: 1.5 Common Uses of Linux
KEYWORDS: Bloom's: Remember
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9. When viewing the version number for a modern Linux kernel, what number indicates that it is a development kernel?

a. major number
b. revision number
c. minor number
d. release candidate number

ANSWER: d
RATIONALE: A modern development kernel has a release candidate number appended to it. For example, 5.19-rc8 is release candidate 8 of the 5.19 kernel.

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POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Eckert.Linux+6e.24.1.2 - Outline the key features of the Linux operating system.
TOPICS: 1.2 The Linux Operating System
KEYWORDS: Bloom's: Remember
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10. Which of the following is the greatest expense for companies using Linux?

a. additional software
b. operating system cost
c. hiring people to maintain the Linux system
d. software upgrades

ANSWER: c
RATIONALE: Outside of computer hardware costs, the hiring of staff to maintain the Linux system is the greatest expense for companies using Linux. This is because Linux and most Linux software are free and open source.
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Eckert.Linux+6e.24.1.2 - Outline the key features of the Linux operating system.
TOPICS: 1.2 The Linux Operating System
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11. In Linux, the core component of the GUI is known as:

a. GNOME
b. KDE
c. X Windows
d. Red Hat

ANSWER: c
RATIONALE: X Windows is the core component that provides GUI functionality on Linux systems. Desktop environments, such as GNOME and KDE, run on top of X Windows to provide a specific look and feel.
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Eckert.Linux+6e.24.1.2 - Outline the key features of the Linux operating system.
TOPICS: 1.4 Linux Distributions

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12. An archive of files that usually contains source code or scripts that can be used to install software is referred to as a:

a. router
b. package manager
c. DBMS
d. tarball

ANSWER: d
RATIONALE: Tarball is a compressed archive of files, very similar to WinZip or RAR files. It is used for distributions or backup purposes.
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Eckert.Linux+6e.24.1.4 - Identify the characteristics of various Linux distributions and where to find them.
TOPICS: 1.4 Linux Distributions
KEYWORDS: Bloom's: Remember
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13. From what common Linux distribution is the Fedora Linux distribution derived?

a. Mandrake
b. SuSE
c. Debian
d. Red Hat

ANSWER: d
RATIONALE: Red Hat is one of the earliest and most common Linux distributions. Today, it is available as Red Hat Enterprise Linux (RHEL) and Fedora.
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Eckert.Linux+6e.24.1.4 - Identify the characteristics of various Linux distributions and where to find them.
TOPICS: 1.4 Linux Distributions
KEYWORDS: Bloom's: Remember
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14. What service provides a method for the efficient transfer of files over the Internet?

a. FTP
b. HTML
c. SMTP
d. Telnet

ANSWER: a
RATIONALE: The File Transfer Protocol (FTP) is the service that transfers files over the Internet. A newer protocol that focuses on secure file transfer is called SFTP based on FTP.
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Eckert.Linux+6e.24.1.5 - Explain the common uses of Linux in industry today.
TOPICS: 1.5 Common Uses of Linux
KEYWORDS: Bloom's: Remember
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15. The iptables and nftables software on Linux is an example of what kind of software?

a. routing
b. anti-virus
c. firewall
d. proxy

ANSWER: c
RATIONALE: Both iptables and nftables are used to configure a set of rules necessary to make a firewall.
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Eckert.Linux+6e.24.1.5 - Explain the common uses of Linux in industry today.
TOPICS: 1.5 Common Uses of Linux
KEYWORDS: Bloom's: Remember
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16. What piece of software tells the operating system how to use a specific hardware device?

a. graphical user interface
b. system service
c. device driver
d. user interface

ANSWER: c

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RATIONALE: The device driver is responsible for communicating with the operating system on how to establish communication with specific devices.
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Eckert.Linux+6e.24.1.1 - Explain the purpose of an operating system.
TOPICS: 1.1 Operating Systems
KEYWORDS: Bloom's: Remember
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17. What type of software license does Linux adhere to?

a. permissive
b. freeware
c. closed source
d. copyleft

ANSWER: d
RATIONALE: Linux is licensed under the GNU General Public License (GPL), which is a type of copyleft open source license.
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Eckert.Linux+6e.24.1.2 - Outline the key features of the Linux operating system.
TOPICS: 1.2 The Linux Operating System
KEYWORDS: Bloom's: Understand
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18. What are services running on a Linux server called?

a. daemons
b. service apps
c. containers
d. threads

ANSWER: a
RATIONALE: On Linux systems, services are commonly referred to as daemons. Containers provide application and operating system virtualization, threads are execution units for a process, and the term service app is not used.
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Eckert.Linux+6e.24.1.5 - Explain the common uses of Linux in industry today.

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TOPICS: 1.5 Common Uses of Linux
KEYWORDS: Bloom's: Remember
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19. What Linux distribution is commonly used by cybersecurity professionals because it is packaged with several security-related tools?

a. Kali
b. Arch
c. Ubuntu
d. Gentoo

ANSWER: a
RATIONALE: Kali Linux is a security-focused Linux distribution often used by cybersecurity professionals. While Ubuntu, Arch, and Gentoo Linux may also be used by cybersecurity professionals, the security-related tools that are normally packaged with Kali Linux will need to be installed manually after installation on these distributions.
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Eckert.Linux+6e.24.1.4 - Identify the characteristics of various Linux distributions and where to find them.
TOPICS: 1.4 Linux Distributions
KEYWORDS: Bloom's: Remember
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20. What culture led to the development of free and open source software, from which Linux is derived?

a. hacker
b. UNIX
c. free software
d. cracker

ANSWER: a
RATIONALE: The hacker culture led to the development of free and open source software, from which Linux is derived.
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Eckert.Linux+6e.24.1.3 - Describe the origins of the Linux operating system.
TOPICS: 1.3 The History of Linux
KEYWORDS: Bloom's: Remember
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21. What common software component do all Linux distributions share at minimum?

a. compiler
b. kernel
c. package manager
d. X Windows

ANSWER: b
RATIONALE: While Linux distributions may use different interfaces and software packages, they all share the same Linux kernel.
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Eckert.Linux+6e.24.1.4 - Identify the characteristics of various Linux distributions and where to find them.
TOPICS: 1.4 Linux Distributions
KEYWORDS: Bloom's: Remember
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22. Amir is unfamiliar with Linux and would like to obtain physical help installing Linux on his laptop computer. What resource would best suit Amir's needs?

a. online forum
b. LUG
c. Linux information website
d. social media website

ANSWER: b
RATIONALE: Linux User Groups (LUGs) are groups of Linux users who meet regularly to discuss Linux-related issues and problems. Amir could bring his laptop computer to a LUG to obtain help installing Linux from other LUG members.
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Eckert.Linux+6e.24.1.2 - Outline the key features of the Linux operating system.
TOPICS: 1.2 The Linux Operating System
KEYWORDS: Bloom's: Apply
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23. Which of the following job roles are most likely to use Linux on their workstation computer?

a. software developers

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b. accountants
c. graphic artists
d. Windows server administrators

ANSWER: a
RATIONALE: The rich set of open source development tools and frameworks available for Linux also makes Linux the preferred choice for software development workstations.
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Eckert.Linux+6e.24.1.5 - Explain the common uses of Linux in industry today.
TOPICS: 1.5 Common Uses of Linux
KEYWORDS: Bloom's: Understand
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24. Web app developers must regularly push new versions of their containerized web apps to the cloud. What is this process called?

a. CI
b. build automation
c. orchestration
d. CD

ANSWER: d
RATIONALE: The process whereby developers push new web apps to the cloud is called continuous deployment (CD).
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
LEARNING OBJECTIVES: Eckert.Linux+6e.24.1.6 - Describe how Linux is used in the cloud.
ACCREDITING STANDARDS: Eckert.XK0-005.24.3.4 - Summarize common infrastructure as code technologies.
TOPICS: 1.6 Linux in the Cloud
KEYWORDS: Bloom's: Remember
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Multiple Response

25. Which of the following are features of open source software (OSS)? (Choose all that apply.)

a. Software is developed through widespread collaboration.
b. Software bugs are fixed quickly.
c. Software features evolve based on users' needs.

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d. The cost of the software is based on the number of software packages installed.

ANSWER: a, b, c
RATIONALE: Because open source software (OSS) is developed collaboratively, bugs are fixed quickly and the software evolves based on users' needs. Linux and most software that runs on Linux are open source and free of cost as a result.
POINTS: 1
QUESTION TYPE: Multiple Response
HAS VARIABLES: False
LEARNING OBJECTIVES: Eckert.Linux+6e.24.1.2 - Outline the key features of the Linux operating system.
TOPICS: 1.2 The Linux Operating System
KEYWORDS: Bloom's: Understand
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26. Which of the following types of hardware are supported by the Linux operating system? (Choose all that apply.)

a. IoT devices
b. supercomputers
c. Internet servers
d. personal workstations

ANSWER: a, b, c, d
RATIONALE: Linux is available for nearly every hardware platform and type, including workstations, servers, supercomputers, mobile, IoT, and custom hardware devices.
POINTS: 1
QUESTION TYPE: Multiple Response
HAS VARIABLES: False
LEARNING OBJECTIVES: Eckert.Linux+6e.24.1.2 - Outline the key features of the Linux operating system.
TOPICS: 1.2 The Linux Operating System
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27. What two Linux distributions utilize the Debian package manager by default?

a. Red Hat
b. openSUSE
c. Linux Mint
d. Ubuntu

ANSWER: c, d
RATIONALE: Linux Mint is a Debian-based distribution, focused on providing desktop and mobile user capabilities. Ubuntu is a Debian-based distribution that is widely used in all environments.

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POINTS: 1
QUESTION TYPE: Multiple Response
HAS VARIABLES: False
LEARNING OBJECTIVES: Eckert.Linux+6e.24.1.4 - Identify the characteristics of various Linux distributions and where to find them.
TOPICS: 1.4 Linux Distributions
KEYWORDS: Bloom's: Remember
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28. Which of the following software terms are equivalent? (Choose all that apply.)

a. MIT
b. FOSS
c. OSS
d. FLOSS

ANSWER: b, c, d
RATIONALE: Open source software (OSS) is also called free and open source software (FOSS) or free/libre and open source software (FLOSS). MIT is a specific open source license.
POINTS: 1
QUESTION TYPE: Multiple Response
HAS VARIABLES: False
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TOPICS: 1.2 The Linux Operating System
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Mod 01 Introduction to Linux

Multiple Choice

1. The United States Air Force was able to install Linux on a popular gaming console and then connect over 1,700 of these systems together to work as one big supercomputer. Which of the following types of technologies did they implement?

a. herding
b. cloud computing
c. group computing
d. clustering

ANSWER: d

2. Which of the following terms describes a type of useful and legitimate software that is distributed by a developer at no charge and with no source code?

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b. freeware
c. malware
d. tryware

ANSWER: b

3. What term refers to a person that manages the Linux components that allow developers to push new versions of their software to the cloud?

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b. build automator
c. integration specialist
d. DevOp

ANSWER: d

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ANSWER: b

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ANSWER: c

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11. In Linux, the core component of the GUI is known as:

a. GNOME
b. KDE
c. X Windows
d. Red Hat

ANSWER: c

12. An archive of files that usually contains source code or scripts that can be used to install software is referred to as a:

a. router
b. package manager
c. DBMS
d. tarball

ANSWER: d

13. From what common Linux distribution is the Fedora Linux distribution derived?

a. Mandrake
b. SuSE
c. Debian
d. Red Hat

ANSWER: d

14. What service provides a method for the efficient transfer of files over the Internet?

a. FTP
b. HTML
c. SMTP
d. Telnet

ANSWER: a

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b. anti-virus
c. firewall
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16. What piece of software tells the operating system how to use a specific hardware device?

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Mod 01 Introduction to Linux

a. graphical user interface
b. system service
c. device driver
d. user interface

ANSWER: c

17. What type of software license does Linux adhere to?

a. permissive
b. freeware
c. closed source
d. copyleft

ANSWER: d

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b. service apps
c. containers
d. threads

ANSWER: a

19. What Linux distribution is commonly used by cybersecurity professionals because it is packaged with several security-related tools?

a. Kali
b. Arch
c. Ubuntu
d. Gentoo

ANSWER: a

20. What culture led to the development of free and open source software, from which Linux is derived?

a. hacker
b. UNIX
c. free software
d. cracker

ANSWER: a

21. What common software component do all Linux distributions share at minimum?

a. compiler
b. kernel
c. package manager

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d. X Windows

ANSWER: b

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b. LUG
c. Linux information website
d. social media website

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ANSWER: a

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Multiple Response

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b. Software bugs are fixed quickly.
c. Software features evolve based on users' needs.
d. The cost of the software is based on the number of software packages installed.

ANSWER: a, b, c

26. Which of the following types of hardware are supported by the Linux operating system? (Choose all that apply.)

a. IoT devices
b. supercomputers

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c. Internet servers
d. personal workstations

ANSWER: a, b, c, d

27. What two Linux distributions utilize the Debian package manager by default?

a. Red Hat
b. openSUSE
c. Linux Mint
d. Ubuntu

ANSWER: c, d

28. Which of the following software terms are equivalent? (Choose all that apply.)

a. MIT
b. FOSS
c. OSS
d. FLOSS

ANSWER: b, c, d

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