Chapter 1

Review Questions

1. A friend has asked you which version of Windows 10 should be purchased to start a new home-based business. Your friend needs only one computer for now, and requires support for Windows Store applications needed to manage their business. They are not very experienced with computers and have asked for easy-to-use features. Which version of Windows 10 do you recommend?

a. Windows 10 Education

b. **Windows 10 Home**

c. Windows 10 Professional

d. Windows 10 Enterprise

2. The minimum specifications for Windows 10 require greater CPU and RAM resources than Windows 7. True or **False**?

3. \_\_\_ on a Chip is a hardware component capable of reducing the overall size of a computer. **System**

4. The new web browser included with Windows 10 is called \_\_\_.

a. Charlie

b. Virtual Desktop

c. Cortana

d. **Microsoft Edge**

e. Windows Hello

5. You are adding a new 500 GB hard drive to your computer. The hard drive must be formatted with a file system to organize files into folders on that drive. The recommended file system to use is \_\_\_.

a. exFAT

**b. NTFS**

c. ReFS

d. FAT

6. You are considering purchasing an inexpensive computer from a friend that has a 32-bit CPU and 8 GB of RAM. You install Windows 10 Home, 32-bit edition, but you can’t see the full amount of RAM. What is wrong?

a. The CPU does not support hyperthreading

b. You need to install a 64-bit version of Windows 10

c. The CPU does not support multiple cores

d. You must install Windows 10 Professional

**e. Windows 10, 32-bit editions cannot support more than 4 GB of RAM**

7. Your workstation is running Windows 10 Professional and you decide to share a folder on your computer. Twenty-two people in your office are trying to connect to that folder at the same time over the network. The first 20 people can connect, the other two cannot. To fix this you could \_\_\_.

**a. buy a computer, software, and licenses to run Windows Server 2016**

b. restart your computer

c. make sure the network card is using WDF device drivers

d. none of the above

8. Computers that belong to the same domain can access a common security database of user and computer account information. This type of database on Windows Server 2016 domain controller servers is also known as a(n) \_\_\_ database.

a. primary

b. workgroup

c. jet

**d. Active Directory**

e. backup

9. Which of the following is an advantage of domain networking?

a. no central security database

b. built in to every version of Windows 10

**c. centralized security management**

d. support for up to 25 simultaneous shared connections

10. A new company will have 40 workstations in one building sharing a single network. All users must be able to share files and printers with each other. Access to shared information must be secure and simple to administer. The best technology for this system is:

a. Workgroups

b. Windows Peer-to-Peer networking

c. People to People

**d. domain networking**

11. The new virtual personal assistant built into Windows 10 can search multiple places for information that relates to your needs, including (select three):

**a. The local computer**

b. Microsoft Passport

**c. The web**

**d. External accounts**

12. In tablet mode, Windows 10 will assume that \_\_\_ is not generally available:

a. multitouch

**b. keyboard and mouse**

c. Microsoft Passport

d. multifactor authentication

13. The main network protocol used to communicate between Windows 10 computers is \_\_\_\_\_:

**a. TCP/IP**

b. X.25

c. SLIP

d. Peer-to-Peer

e. Teredo

14. Window 10’s version of TCP/IP supports the newer communication protocol called \_\_\_.

a. IPv5

**b. IPv6**

c. IPv4

d. WDDM

e. IPv8

15. A user has a computer running Windows 7 but cannot seem to activate the free upgrade offer to Windows 10. The computer is a 32-bit CPU model with 4 GB of RAM and a 500 GB hard drive with 200 GB of free space. The free upgrade is likely unavailable because \_\_\_.

a. their system does not meet minimum hardware specifications

b. there is not enough free space on the hard drive

**c. the system is missing prerequisite Windows Updates**

d. they are running Windows 7 Extreme

e. the offer is only available to users of Windows 8 or 8.1

16. Application windows can be docked to the sides and corners of the screen using a feature called \_\_\_\_.

**a. Snap**

b. Shake

c. Virtual desktop

d. Peek

e. Docker

17. An administrator of a manufacturing company would like to manage corporate computers with group policy. They are reviewing a purchase request for 20 new computers from the business owners. Which version of Windows 10 should they consider for installation on the new computers they would like to buy (select two)?

a. Windows 10 Home

**b. Windows 10 Professional**

c. Windows 10 Education

**d. Windows 10 Enterprise**

e. Windows 10 Ultimate

18. Windows Hello supports multiple biometric authentication methods, including facial recognition. The failsafe method to authenticate in case the facial recognition method is unavailable is \_\_\_.

a. fingerprint sensor

b. retina scanner

**c. PIN**

d. Microsoft Passport

19. Some hardware can be added to the computer without having to restart or power down the computer. After a short period of time the device driver automatically loads and the hardware is available to applications and the user. This type of hardware is considered compatible with what type of technology?

a. Plug and Go

b. InstantGo

**c. Plug and Play**

d. Legacy

20. Windows 10 takes up less room on storage devices when the operating system is installed. One reason for this could be the enhanced \_\_\_ feature of the newer edition NTFS file system:

a. self-healing

**b. compression**

c. alternate data stream

d. hard linked

21. Software Assurance customers can take advantage of extra applications provided with Windows 10 Enterprise edition. What feature included with this edition will allow a virtual computer to be hosted by the computer running Windows 10?

a. SoC

b. NTFS

c. UNIX native application support

**d. Client Hyper-V**

e. Terminal Services

22. Which of the following is an advantage of HomeGroup computing?

a. requires one or more expensive servers

b. supports 20 workstations

c. no security enforced

**d. simple to set up initially**

23. A thread represents the files, data, and instructions that make up a single running task or application. **True** or False?

24. You are installing a computer to run a nuclear reactor management system. The software lists Windows 10 as a requirement. To ensure that future feature updates do not impact the stability of the software, you should consider what type of Windows 10 installation?

a. WaaS

b. Any version

c. Core

**d. LTSB**

25. Which of the following is a disadvantage of workgroup computing?

a. requires one or more expensive servers

b. supports an unlimited number of workstations

c. no centralized security management

**d. simple to set up initially**

[Case Project]Case Projects

Case Project 1-1: Selecting a Windows 10 Version for a Small Organization

Master Motors has 18 computers. They are replaced only as necessary due to hardware failure or new software requirements. No server is in place to centrally manage resources or security and no plan exists to add one in the next three months. Master Motors may expand to two new locations in the next 12 months. Two computers have recently failed and require replacement. The owner would like to also purchase three extra computers as spares and for possible expansion. Which version of Windows 10 should be purchased with the new computers?

ANS:

Because this is a small to medium-size business that is already considered large enough for a server-based system, the Home edition of Windows 10 is not a good candidate. The shop is not large enough for Enterprise, so the Professional edition is a good choice. Because of the number of computers, the business could save money by purchasing volume license copies of Professional edition.

Case Project 1-2: Dealing with Users who Bring their Own Devices to Work

Gigantic Life Insurance has 4000 users spread over five locations in North America. They have called you as a consultant to discuss different options for deploying Windows 10 to the desktops in their organization. They are concerned that users will be bringing their own mobile devices such as tablets and laptops to connect to their work data. This will improve productivity but they are concerned with what control they have over the users’ access to corporate data. How will Windows 10 help the company manage users who bring their own devices?

ANS:

Windows 10 is designed to access multiple accounts at the same time using features such as Microsoft Passport and Microsoft Passport for Work. Security is enhanced by a variety of multifactor authentication (MFA) methods enabled by Windows Hello such as smart cards, fingerprints, retina scans, facial recognition, and PINs. These additional authentication factors are securely stored on the devices running Windows 10 and add an extra layer of security in addition to passwords. If a device is lost or stolen, the authentication data it contains is encrypted but also insufficient to sign in to an MFA-enabled system. The user and the device are required to complete the sign-in process in that case.

Windows 10 supports Azure AD join and the ability to be managed by a Mobile Device Management (MDM) solution such as Microsoft Intune. If the device is enrolled in an MDM solution, a lost device can be remotely erased by administrators to boost security, or the corporate data can be selectively removed if the user leaves the company, while the user’s personal data remains intact.

Users can be encouraged to bring devices that run Windows 10 by advertising an improved productivity experience for them if they are using Windows 10 and are willing to participate with a less intrusive management of their device as it relates to work data and applications by corporate IT.