CHAPTER 2 - INSTALLING AND UPGRADING SQL SERVER 2000

TRUE/FALSE

1. The regional options item in the Windows Control panel shows the Windows locale of the computer.
   
   ANS: T    PTS: 1    REF: 40

2. Unicode data types require half as much physical space as typical databases because they implement two byte characters.
   
   ANS: F    PTS: 1    REF: 41

3. When examining code pages, each European language, such as German or Spanish, has its own single byte code page.
   
   ANS: T    PTS: 1    REF: 41

4. The network libraries screen shown above allows network libraries to be installed for an installation of SQL Server 2000.
   
   ANS: T    PTS: 1    REF: 42
5. Named pipes are NOT required when installing SQL Server 2000 in Windows 2000 or Windows NT.
   ANS: F       PTS: 1       REF: 42

6. Windows 2000 has two licensing schemes, one is based on the number of devices connecting to a database instance and the other is based on the number of processors that the SQL Server has.
   ANS: T       PTS: 1       REF: 43

7. The SQL Server 2000 installation ends by installing the connectivity components.
   ANS: F       PTS: 1       REF: 44

8. Each SQL Server computer in a cluster is called a node.
   ANS: T       PTS: 1       REF: 45

9. The Registry rebuild option will repair any data errors for the master database.
   ANS: F       PTS: 1       REF: 46

10. The only way to get back to the original SQL Server 7.0 installation is to uninstall SQL Server 2000 and then reinstall it.
    ANS: T       PTS: 1       REF: 47

11. The Install Analysis Services option will begin the installation process for data warehousing components of SQL Server 2000.
    ANS: T       PTS: 1       REF: 28

12. The Virtual Server option is also available if MCSC is NOT detected.
    ANS: F       PTS: 1       REF: 29

MODIFIED TRUE/FALSE

1. In a typical production environment, a machine with at least two Pentium processors and 256 MB of RAM is a good rule of thumb. _________________________
   ANS: T       PTS: 1       REF: 24

2. All SQL Server 2000 Editions require Internet Explorer 4. _________________________
   ANS: F, Internet Explorer 5
   PTS: 1       REF: 25
3. If the XML features are going to be used, Internet Information Services must be installed prior to a SQL Server 2000 installation.

ANS: T
PTS: 1
REF: 25

4. Internet Information Services CANNOT be shut down by going to the Services Manager.

ANS: F, can
PTS: 1
REF: 26

5. The Virtual Server option will NOT be selected by default if the installation program detects that Microsoft Clustering Services is running on the computer.

ANS: F, will
PTS: 1
REF: 29

6. In the figure shown above, the company name is NOT required for proper installation.

ANS: F, is
PTS: 1
REF: 31

7. An Application Service Provider is a company that hosts and supports software for its customers.

ANS: T
PTS: 1
REF: 32
8. The figure shown above illustrates that the default instance is chosen. This selection is made manually when a preexisting instance of SQL Server 2000 is NOT detected on the target machine.

ANS: F, automatically

PTS: 1
REF: 33

9. The typical installation of SQL Server 2000 allows an individual to install all of the components of SQL Server and assumes the default installation option.

ANS: T

PTS: 1
REF: 34

10. Windows Authentication Mode is NOT recommended with SQL Server 2000.

ANS: F, is

PTS: 1
REF: 39

MULTIPLE CHOICE

1. In a typical production environment, which of the following would be the most optimum situation to have in terms of processor and memory?
   a. One Pentium processor and 128 MB of RAM
   b. Two Pentium processors and 256 MB of RAM
   c. One Pentium processor and 256 MB of RAM
   d. Two Pentium processors and 64 MB of RAM

ANS: B

PTS: 1
REF: 25

2. When installing the SQL Server components, which of the following options will begin the installation process for the administrative tools and the database engine?
a. Install English Query  
   Install Database server  
   Install Analysis Services  
   None of the above

ANS: C  
PTS: 1  
REF: 28

3. When installing the SQL Server components, which of the following options will begin the installation process for the data warehousing components of SQL Server 2000?

   a. Install English Query  
   Install Database Server  
   Install Analysis Services  
   None of the above

ANS: B  
PTS: 1  
REF: 28

4. When installing the SQL Server components, which of the following options installs a special set of facilities that allows users of SQL Server 2000 to query the database using logical English statements?

   a. Install English Query  
   Install Analysis Services  
   Both A and B  
   None of the above

ANS: A  
PTS: 1  
REF: 28

5. When installing SQL Server, which of the following options is only enabled if an existing instance of SQL Server is detected by the setup program?

   a. Advanced options  
   Upgrade/Remove or Add  
   Typical  
   Custom

ANS: B  
PTS: 1  
REF: 30

6. When multiple instances of SQL Server 2000 are installed on a single computer, which of the following resources are created for each instance?

   a. System and user databases  
   SQL Server and SQL Server Agent Services  
   Registry keys associated with the MSSQL and SQL Server Agent services  
   All of the above

ANS: D  
PTS: 1  
REF: 32

7. When installing SQL Server 2000, which of the following options will install all of the components of SQL Server and assume the default installation options?

   a. Typical  
   Minimum  
   Custom  
   All of the above

ANS: 
PTS: 
REF:
8. When installing SQL Server 2000, which of the following is only chosen when the hardware limitations prevent the installation of all of the components?
   a. Typical   c. Custom
   b. Minimum   d. None of the above

   ANS: B  PTS: 1  REF: 34

9. When installing SQL Server 2000, which of the following components allows an administrator to explicitly select components and sub-components as well as customize the collation settings for installation?
   a. Typical   c. Custom
   b. Minimum   d. None of the above

   ANS: C  PTS: 1  REF: 34

10. When installing the program files for SQL Server 2000, which of the following is considered to be true?
    a. They are located on the hard drive and the data files are stored on the secondary physical drive.
    b. Program files are stored on the secondary physical drive and the data files are stored on the primary hard drive.
    c. Both A and B
    d. None of the above

    ANS: A  PTS: 1  REF: 34

11. Which of the following would be considered server components of SQL Server 2000?
    a. Upgrade tools   c. Full-Text Search
    b. Replication support   d. All of the above

    ANS: D  PTS: 1  REF: 35

12. Which of the following components installs a set of programming examples that demonstrate common programming tasks associated with developing applications with SQL Server 2000?
    a. Books Online   c. Code samples
    b. Development tools   d. Client samples

    ANS: C  PTS: 1  REF: 36

13. Which of the following components installs tools that are useful when programming applications for SQL Server 2000?
    a. Code tools   c. Development tools
b. Client tools   d. All of the above

ANS: C      PTS: 1       REF: 36

14. Which of the following features can only be implemented if the services are configured to use a domain user account?
   a. Replication  c. Backups to network hard drives
   b. Remote procedure calls  d. All of the above

ANS: D      PTS: 1       REF: 37

15. When installing SQL Server 2000, which of the following would be true?
   a. It requires a Pentium 166 MHz or higher.
   b. It requires 64 MB of RAM at minimum.
   c. More disk space will be required depending on the volume of data being stored on or in the user database.
   d. All of the above

ANS: D      PTS: 1       REF: 24

16. Which of the following is NOT supported with main instances of SQL Server 2000 and will NOT be supported in future releases of SQL Server?
   a. AppleTalk ADSP  c. Both A and B
   b. Banyan VINES   d. TCP/IP

ANS: C      PTS: 1       REF: 43

17. Which of the following is a company that hosts and supports software for its customers or provides an application that can be leased by its customers?
   a. Cluster Service Provider  c. Internet Service Provider
   b. Application Service Provider  d. Mixed Service Provider

ANS: B      PTS: 1       REF: 32

18. Which of the following is a library that supports a special type of client?
   a. Banyan VINES  c. NWLink
   b. Heartbeat   d. Windows Authentication

ANS: A      PTS: 1       REF: 43
19. Which of the following is a term used to refer to shared sets of resources used by an SQL Server failover cluster?
   a. Collision group  c. Authentication group
   b. Mixed group      d. Cluster group

   ANS: D  PTS: 1  REF: 45

20. Which of the following defines bit patterns and represents specific letters, numbers, and symbols?
   a. Code page        c. Sort code
   b. Unicode code      d. Node

   ANS: A  PTS: 1  REF: 41

21. Which of the following specifies the binary patterns that represent each character available, and the rules by which characters are sorted and compared?
   a. Heartbeat          c. Node
   b. Collation           d. Sort code

   ANS: B  PTS: 1  REF: 26

22. Which of the following are simple network messages passed between nodes on failover clusters that are used to determine which nodes are operational?
   a. Locale             c. Heartbeat
   b. Name pipe          d. Sort order

   ANS: C  PTS: 1  REF: 45

23. Which of the following would be considered the Windows operating system attribute that defines certain behaviors related to language?
   a. Sort locale        c. Node
   b. Locale             d. Sort order

   ANS: B  PTS: 1  REF: 40

24. Which of the following would be considered the key technologies for enabling data access across a network?
   a. Microsoft Data Access Components  c. Named Data Access Components
   b. Mixed Data Access Components      d. Windows Data Access Components

   ANS: A  PTS: 1  REF: 44
25. Which of the following is used to validate user connections to SQL Server instances?
   a. Multi-protocol
d   c. Mixed Authentication mode
   b. Order Authentication mode
d. Collation Authentication mode

   ANS: C       PTS: 1       REF: 39

26. Which of the following network libraries offers support for TCP/IP, name pipe, and NWLink IPX/SPX?
   a. Multi-protocol
c. Banyan VINES
   b. AppleTalk
d. All of the above

   ANS: A       PTS: 1       REF: 43

27. Which of the following network libraries is required when installing SQL Server 2000 in Windows 2000 or Windows NT?
   a. Banyan VINES
c. AppleTalk
   b. Named pipe
d. All of the above

   ANS: B       PTS: 1       REF: 42

28. Which of the following is a term used to refer to a single SQL server computer within a failover cluster?
   a. Node
c. Cluster
   b. Pipe
d. Group

   ANS: A       PTS: 1       REF: 45

29. Which of the following is a set of rules used by collation to define how characters are sorted and evaluated by comparison operations?
   a. Mixed order
c. Cluster order
   b. Sort order
d. Group order

   ANS: B       PTS: 1       REF: 41

30. Which of the following libraries provides support for Novell NetWare clients connecting to a SQL server?
   a. AppleTalk
c. NWLink IPX/SPX
   b. Banyan VINES
d. All of the above

   ANS: C       PTS: 1       REF: 45
31. Which of the following network libraries allows communication through standard windows sockets?
   a. TCP/IP sockets   c. Banyan VINES sockets
   b. AppleTalk sockets   d. All of the above

   ANS: A   PTS: 1   REF: 43

32. The default port for default instances for SQL Server 2000 is ____.
   a. 1533   c. 1433
   b. 1633   d. 1733

   ANS: C   PTS: 1   REF: 43

33. ____ defines a set of letters, numbers, and symbols by using two bytes per character.
   a. Binary code   c. Both A and B
   b. Unicode   d. None of the above

   ANS: B   PTS: 1   REF: 41

34. When in ____ users are identified by their Windows user or group when they connect to a network.
   a. windows authentication mode   c. collation mode
   b. mixed Authentication mode   d. none of the above

   ANS: A   PTS: 1   REF: 39

**YES/NO**

1. Are heartbeats considered simple network messages passed between nodes on failover clusters that also are used to determine which nodes are operational?

   ANS: Y   PTS: 1   REF: 45

2. Is Banyan VINES the library that supports AppleTalk clients?

   ANS: N   PTS: 1   REF: 43

3. Does the locale define the code page used to store and sort character data as well as language specific items?

   ANS: Y   PTS: 1   REF: 40

4. Would the term module refer to a single SQL server computer within a failover cluster?

   ANS: N   PTS: 1   REF: 45
5. Is sort order a set of rules used by a collation to define how characters are sorted and evaluated by comparison operations?

6. Will AppleTalk ADSP be supported in future releases of SQL Server?

7. Will Banyan VINES be supported in future releases of SQL Server?

8. Is Unicode able to offer more than 65,000 possible values compared to single byte character sets, which only allow 256?

9. Is the default port for default instances of SQL Server 2000 1533?
   
   ANS: N        PTS: 1        REF: 43

10. Can SQL Server 2000 run with a Pentium 166 MHz processor?
    
    ANS: Y        PTS: 1        REF: 24

11. Do all of the components checked in the figure shown above need to be selected in order to have a successful installation of SQL Server 2000?
    
    ANS: N        PTS: 1        REF: 35
12. In the figure shown above, when considering collation considerations, are the default selections acceptable for a proper installation of SQL Server 2000?

   ANS: Y  PTS: 1  REF: 40

COMPLETION

1. A(n) ____________________ permits access to shared network resources.

   ANS: named pipe
   PTS: 1  REF: 42

2. ____________________ are simple network messages passed between nodes on failover clusters used to determine which nodes are operational.

   ANS: Heartbeats
   PTS: 1  REF: 45

3. The ____________________ defines the code page used to store and sort character data as well as language specific items.

   ANS: locale
   PTS: 1  REF: 40

4. ____________________ is installed as a suite of connectivity tools for accessing data using a variety of formats.

   ANS:
   Microsoft Data Access Components
   MDAC
5. ______________________ specifies the binary patterns that represent each character available and the rules by which characters are sorted and compared.

ANS: Collation

PTS: 1    REF: 26

6. In ______________________ users are identified by their Windows domain login or SQL Server login information.

ANS: Mixed Authentication Mode

PTS: 1    REF: 39

7. ______________________ is a single network library that offers support for TCP/IP, named pipes, and NWLink IPX/SPX.

ANS: Multi-protocol

PTS: 1    REF: 43

8. ______________________ refers to a single SQL Server computer within a failover cluster. ANS: Node

PTS: 1    REF: 45

9. In ______________________ mode, users are identified by their Windows user or group when they connect.

ANS: Windows Authentication

PTS: 1    REF: 39

10. A(n) ___________________________ provides an application that can be leased by its customers.

ANS:
Application Service Provider
ASP

PTS: 1    REF: 32

MATCHING

Identify the correct word with its corresponding definition.

a. Code page  
   f. Locale
b. Application Service Provider (ASP)  
g. Cluster group
c. Mixed Authentication mode  
h. Windows Allocation mode

d. Collation  
i. Unicode

e. Named pipes  
j. Sort order

1. Defines a set of letters, numbers, and symbols by using two bytes per character.

2. Attribute that defines certain behaviors related to language.

3. A company that hosts and supports software for its customers or provides an application that can be leased by its customers.

4. Defines the bit patterns that represent specific letters, numbers, and symbols.

5. Used to refer to shared sets of resources used by SQL Server failover clusters.

6. Users are identified by their Windows domain login or SQL Server login information.

7. Are required when installing SQL Server in Windows 2000 or Windows NT.

8. It is used to validate user connections to SQL Server instances.

9. Specifies the binary patterns that represent each character available and the rules by which characters are sorted and compared.

10. Set of rules used to define how characters are sorted and evaluated by comparison operations.

1. ANS: I  PTS: 1  REF: 41

2. ANS: F  PTS: 1  REF: 40

3. ANS: B  PTS: 1  REF: 32

4. ANS: A  PTS: 1  REF: 41

5. ANS: G  PTS: 1  REF: 45

6. ANS: C  PTS: 1  REF: 39

7. ANS: E  PTS: 1  REF: 42
8. ANS: H  PTS: 1  REF: 39

9. ANS: D  PTS: 1  REF: 26

10. ANS: J  PTS: 1  REF: 41

SHORT ANSWER

1. When installing SQL Server 2000, it is possible to select the record unattended.iss file option. Describe its purpose.

ANS:
When this option is chosen all of the typical prompts for an installation are provided but the selections are used to build an unintended installation file instead of actually installing SQL Server 2000. The file generated has an extension of .iss and is stored in the \WINNT folder of the computer. This file is used by running the SQL Server setup directly from the command prompt.

PTS: 1  REF: 45

2. Describe the procedures used when upgrading from SQL Server 7.0.

ANS:
There are two ways to upgrade databases to SQL Server 2000 from version 7.0. The most obvious is to upgrade all of the underlying components as well as existing databases by running a standard upgrade using the SQL Server 2000 Setup program. The second option involves using the Copy Database Wizard to move databases from version 7.0 installation to an existent version of 2000 instance.

PTS: 1  REF: 47

3. Describe how an individual would upgrade from SQL Server 6.5 to 7.0.

ANS:
The architectural differences between 6.5 and 7.0 are so great that a straightforward upgrade cannot be performed from version 6.5 to SQL Server 2000. In this type of upgrade the SQL Server 2000 components are installed without affecting the existing version 6.5 installation. The databases and some of the SQL Server settings are actually copied to the 2000 version installation. To perform this type of upgrade, you must first install SQL Server 2000 on the same machine as the version 6.5 installation and then you must execute a series of steps to migrate both of the database structures and all of the data.

PTS: 1  REF: 47

4. SQL Server Setup will create three files that can provide information about problems that occur during an installation or upgrade. Name the files and describe them.

ANS:
Sqlstp.log: This file is located in the \WINNT folder on the system drive of the target machine. It records any errors that occur during the configuration portion of setup.

Setup.log: This file is located in the \WINNT folder on the setup drive of the target machine.

Error.log: The most recent error log for SQL 2000 can be found in the \log folder off of the installation directory.

PTS: 1                          REF: 49


ANS:
This operating system requires Microsoft Windows CE operating system version 2.11 or later for Handheld PC Pro (H/PC Pro) or Palm-size PC (P/PC) devices. Secondly Windows CE 3.0 or later for Pocket PC devices. Thirdly, 1-3 MB of available storage space, depending on processor type, operating system version, and components installed.

PTS: 1                          REF: 25