



# MCQ400

## **SAP NetWeaver Technology Multiple Choice Questions & Answers**

**First Edition**

**SAP Consultant Certification  
Technology Consultant SAP NetWeaver 7.0 –  
SAP Web AS for MS SQL Server/Oracle**

**SAP-INFO**

**Liza M. Farad**

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# *Preface*

This book came about by pure coincidence. I had been planning to write a 'How to do Manual' for my personal use, after I completed my SAP NetWeaver Certification. I was approached by a friend at SAP-INFO.org and was asked if I could write a MCQ on the SAP NetWeaver Technology Certification.

The SAP NetWeaver Technology Multiple Choice Questions & Answers (MCQ400) is part of a testing and certification program, for SAP Technology Consultants looking to sit the C\_TADM51\_04 or C\_TADM53\_04 exams. SAP offers consultants the opportunity to be recognised for their skills as an SAP Certified Consultant. Recognised worldwide, the Certification verifies their ability as a highly qualified SAP NetWeaver Technology Consultant.

There are over 400 Questions and Answers along with brief explanations on the answers. It covers the entire NetWeaver (Basis) Certification Track and gives a comprehensive overview and probes as many of the areas within the Certification track.

The most effective way in which you should use this book is to take each chapter and answer all the questions and then verify the answers at the end of the chapter and no Cheating!!

# *Acknowledgments*

I want to take this opportunity to give my sincere thanks to the many people who helped me and supported me through the sometimes painful process of making this book project a reality.

I am grateful to the support given by the entire team at SAP-INFO.org, who not only demonstrated their impressive technical knowledge but also their friendship and support.

I would also like to thank my family and friends for all the time I stole from them.

Finally, I would like to dedicate this book to my Mum.

*Liza M. Farad  
London,  
January 2008*

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# *Contents*

<b>Chapter 1: Technology Solution Fundamentals.....</b>	<b>1</b>
<b>Chapter 2: SAP Web AS Administration I.....</b>	<b>31</b>
<b>Chapter 3: SAP Web AS Administration II.....</b>	<b>52</b>
<b>Chapter 4: SAP R/3 Enterprise Installation.....</b>	<b>70</b>
<b>Chapter 5: SAP Web AS Java Administration.....</b>	<b>84</b>
<b>Chapter 6: SAP Software Logistics.....</b>	<b>102</b>
<b>Chapter 7: SAP Workload Analysis.....</b>	<b>150</b>
<b>Chapter 8: Database Administration – MS SQL Server.....</b>	<b>163</b>
<b>Chapter 9: Database Administration – Oracle.....</b>	<b>175</b>

# *Chapter 1*

## Technology Solution Fundamentals

The questions in this Unit will prepare you in understanding the workings of mySAP Technology functions, and on the SAP Web Application Server. It will help you understand the basic concepts behind mySAP Technology and mySAP.com.

You will be able to demonstrate your ability:

- To use navigation options in the system efficiently
- To understand the architecture of mySAP Technology and its fundamental Structure.
- To describe the essential features of software development in the SAP environment.
- To name and correctly evaluate interface technologies
- To name basic administrative tasks and demonstrate how to perform some of these tasks.

1. What possibilities does the mySAP.com e-business solution have to offer?

*Choose the correct answer(s).*

- ☐ A Everything you are already familiar with from the SAP R/3 System and much more
- ☐ B A multitude of software components for a wide variety of tasks
- ☐ C The opportunity to sell goods and services over the Internet
- ☐ D A stable, mature software infrastructure
- ☐ E The ability to map and optimize all your business processes

2. The portal solution provided by SAP Portals also allows you to access ERP solutions from other providers.

*Determine whether this statement is true or false.*

- ☐ True
- ☐ False

3. The following solutions are provided by SAP:

*Choose the correct answer(s).*

- ☐ A mySAP Business Support Enabler (mySAP BSE)
- ☐ B mySAP Business Intelligence (mySAP BI)
- ☐ C mySAP Customer Relationship Management (mySAP CRM)
- ☐ D mySAP Supply Chain Management (mySAP SCM)
- ☐ E mySAP Strategic Organization Planning (mySAP SOP)
- ☐ F mySAP Financials

4. mySAP Technology contains, but is not limited to the following elements:

*Choose the correct answer(s).*

- ☐ A The SAP Web Application Server
- ☐ B The SAPDB
- ☐ C The Linux open-source operating system
- ☐ D The SAP Business Connector
- ☐ E The SAPGUI



5. Which of the following statements about the SAP Web Application Server are correct?

*Choose the correct answer(s).*

- ☐ A The SAP Web Application Server is a new, Java-based development of SAP Basis technology.
- ☒ B The SAP Web AS is the result of Web-focused further development of SAP Basis technology.
- ☐ C The SAP DB is a required component of the SAP Web AS.
- ☐ D The SAP Web AS only runs on Linux.
- ☒ E The SAP Web AS supports native SMTP.

6. You can only work in one window (session) at a time in an SAP system.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

7. Which of the following statements accurately describe a client in an SAP system?

*Choose the correct answer(s).*

- ☒ A A client represents a completely independent business entity.
- ☐ B A client has its own database.
- ☐ C A client corresponds to a customer.
- ☒ D A client may represent an entire company.

8. The following strings are valid entries in the command field:

*Choose the correct answer(s).*

- ☐ A /nend
- ☒ B /nex
- ☐ C ?SM04
- ☒ D /nsm04
- ☒ E From SAP Easy Access: SM04
- ☒ F FromSAPEasyAccess:search\_sap\_menu

9. You can use the F1 key to:

*Choose the correct answer(s).*

- ☒ A Display an explanation of a field's uses
- ☐ B Display a list of possible input values
- ☐ C Change your user data (for example, the logon language)
- ☐ D End the session you are in
- ☒ E Display detailed technical information on a field

10. You can use the F4 key to:

*Choose the correct answer(s).*

- ☐ A Start another session
- ☐ B Display detailed technical information on a program
- ☐ C Call the SAP Library
- ☒ D Display possible entries for an input field
- ☐ E Create a print request of the screen currently displayed

11. You can also call the context-sensitive SAP Library using the F1 key.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

12. The following personalization options are available in the SAP GUI:

*Choose the correct answer(s).*

- ☒ A You can change the font size (within limits) in the SAP GUI
- ☒ B You can have system messages displayed in a dialog box
- ☐ C You can change the size of input fields
- ☒ D You can suppress the display of pictures in the SAP GUI
- ☐ E Every user can display a picture of their choice on the SAP Easy Access screen
- ☒ F You can use a personal input history on your front end

13. What are the advantages of a three-tier client/server configuration as compared to a single-tier or two-tier configuration?

*Choose the correct answer(s).*

- ☒ A Simpler scalability
- ☐ B Simpler administration
- ☒ C Load balancing possible
- ☐ D None of the above

14. Which process at the application server level receives the user request?

*Choose the correct answer(s).*

- ☐ A The work process
- ☒ B Dispatcher
- ☐ C The buffer
- ☐ D SAPGUI

15. What types of SAP GUI are there?

*Choose the correct answer(s).*

- ☒ A SAP GUI for the Windows environment
- ☒ B SAPGUI for the Java environment
- ☐ C SAPGUI for Linux
- ☒ D SAPGUI for HTML

16. The SAP Web Application Server database interface enables you to:

*Choose the correct answer(s).*

- ☒ A Enhance performance using the local buffers
- ☐ B Access online databases on the Internet
- ☒ C Use database-independent Open SQL in ABAP programs
- ☐ D Access file content on the SAP Web Application Server

17. Which work process types can you find on an SAP Web Application Server?

*Choose the correct answer(s).*

- ☐ A Dialog work process
- ☐ B Message server work process
- ☐ C Update work process
- ☐ D ICM work process
- ☐ E Background work process
- ☐ F Enqueue work process
- ☐ G Spool work process

18. The term **central instance** describes the instance

*Choose the correct answer(s).*

- ☐ A That you are logged on to while working in the system
- ☐ B On which all application processes required for operating an SAP system are configured
- ☐ C On which the gateway process is configured
- ☐ D On which the majority of work processes are configured
- ☐ E On which the majority of dialog work processes are configured

19. What tasks does the task handler carry out?

*Choose the correct answer(s).*

- ☐ A Communicates with SAPGUI
- ☐ B Coordinates activities within the work process
- ☐ C Accesses the database
- ☐ D Processes the ABAP coding on which a transaction is based

20. Is the assignment of users to dialog work processes fixed?

*Choose the correct answer(s).*

- ☐ A Yes, it is fixed for the entire time that the user is logged on to the SAP system
- ☐ B Yes, it exists for the entire duration of a transaction consisting of several screens
- ☒ C No. Each dialog step of a transaction, consisting of several screens, can theoretically be processed by a different work process
- ☐ D None of the above

21. Database transactions are based on the ACID principle, as are SAP transactions. Why does the database transaction concept nevertheless not cover all the needs of the SAP system?

*Choose the correct answer(s).*

- ☒ A An SAP transaction can bundle several database transactions. It is only as a result of all of these bundled database transactions that the data is consistent in business terms.
- ☒ B Due to work process multiplexing, each work process starts a separate database transaction within each dialog step.
- ☐ C This is because SAP developers have not done their job properly.
- ☐ D Using the SAP transaction as a structural level above the database transaction significantly improves the performance of your SAP system.

22. Where is the lock table?

*Choose the correct answer(s).*

- ☐ A In the database
- ☒ B In the main memory of the application server on which the enqueue work process is configured
- ☐ C At operating system level of the database host
- ☐ D The system administrator can define the location of the lock table using the profile parameter renq/store\_location

23. It makes sense, in an SAP system, to configure several enqueue work processes on different SAP Web Application Servers.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

24. Why are asynchronous updates used for dialog transactions?

*Choose the correct answer(s).*

- ☐ A Only asynchronous updates can access the SAP system buffers
- ☒ B Because an SAP transaction can consist of several database transactions and this approach means that the requirements for the rollback are met
- ☐ C Because only update work processes can access the database data
- ☐ D None of the above

25. During asynchronous updates, which process records the data to be changed in VB\* tables?

*Choose the correct answer(s).*

- ☐ A Update work process
- ☐ B Dispatcher
- ☐ C Recording work process
- ☒ D Dialog work process

26. What is background processing used for?

*Choose the correct answer(s).*

- ☒ A Periodic tasks
- ☐ B Tasks that require user interaction
- ☒ C Long-running tasks
- ☐ D Printing lists

27. Answer the following questions with reference to the two access methods you have learned about, remote and local. Other answers may be correct for other access methods. Which work process types are primarily responsible for **creating** spool requests?

*Choose the correct answer(s).*

- ☒ A Dialog
- ☐ B Update
- ☒ C Spool
- ☐ D Background
- ☐ E Enqueue

28. Which processes and hardware elements are involved (and in what order) in handling the print process using the remote access method? The flow is only outlined here.

*Choose the correct answer(s).*

- ☐ A S-WP → Operating system → Network → Printer
- ☐ B SAP output formatting program → Network → SAP GUI → Front-end CPU → Printer
- ☒ C D-WP → TemSe → S-WP → Network → Operating system spool → Printer
- ☐ D D-WP → S-WP → Database → Network → TemSe → Operating system spool → Printer
- ☐ E D-WP → S-WP → TemSe → Network → Printer

29. What data is contained in a client?

*Choose the correct answer(s).*

- ☐ A Cross-client Customizing, user data, and application data
- ☐ B Customizing and Repository objects
- ☒ C Client-specific Customizing, user data, and application data
- ☐ D Only application data entered in this client

30. The data structure of an SAP system consists of:

*Choose the correct answer(s).*

- ☐ A Application data and Repository
- ☒ B Client-specific data, cross-client Customizing, and the Repository
- ☐ C Client-specific data and the Repository
- ☐ D Client-specific data and cross-client Customizing

31. Why does SAP recommend a three-system landscape?

*Choose the correct answer(s).*

- ☒ A Because of the special data structure in SAP systems
- ☒ B To enable preparation and testing of upgrades
- ☐ C To sell more licenses
- ☐ D Because you can only create one client per system

32. Every developer has to create and release their own change requests.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False



33. What is the ABAP Workbench?

*Choose the correct answer(s).*

- ☐ A A performance assessment tool for ABAP programs
- ☐ B A sort of to do list for ABAP developers; contains all tasks still to be processed
- ☒ C An integrated graphical development environment for ABAP programs
- ☐ D A directory of all valid ABAP commands

34. How can you access an SAP transaction's underlying ABAP code (assuming that you have the authorization to do so)?

*Choose the correct answer(s).*

- ☒ A *System → Status* , and select *Program (Screen)* under *Repository Data*
- ☐ B By using *Program → Display source code*, available in every SAP transaction
- ☒ C By calling the ABAP Editor and entering the corresponding ABAP program name
- ☐ D By pressing F2 when you are in a transaction

35. What do you use domains for?

*Choose the correct answer(s).*

- ☒ A For defining the technical attributes of a field
- ☐ B For adding foreign key dependencies
- ☐ C For defining the semantic attributes of a field
- ☐ D For entering data in a table

36. What is a foreign key ?

*Choose the correct answer(s).*

- ☐ A The definition of technical attributes of fields in a table
- ☐ B A key that developers need to be able to edit Repository objects
- ☒ C The definition of relationships between tables to ensure their consistency
- ☐ D The key required for installing an SAP system on a host computer on which a non-SAP system is already installed

37. When a development project is complete, the tasks and change requests must be released so that they can be exported. Who releases which objects?

*Choose the correct answer(s).*

- ☐ A Developers release their tasks
- ☒ B The development leader releases the request as a whole
- ☐ C The request is released automatically

38. The developer carries out the import into the target systems.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

39. You can carry out the entire software development cycle in the SAP system using the ABAP Workbench tools.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

40. Application Link Enabling (ALE) allows you to:

*Choose the correct answer(s).*

- ☐ A Exchange data only between SAP systems, as long as they have the same release status
- ☐ B Exchange data across system boundaries, but only for SAP applications
- ☒ C Exchange data between collaborating enterprises, using certain formats and technologies
- ☒ D Use the XML format and the HTTPS protocol to exchange data
- ☐ E Update your material master data using the appropriate BAPI, only once every 24 hours

41. The following interfaces and communication options are supported by SAP systems:

*Choose the correct answer(s).*

- ☒ A HTTP(Hyper Text Transfer Protocol)
- ☒ B SMTP(Simple Mail Transfer Protocol)
- ☒ C RFC(Remote Function Call)
- ☒ D BAPIs (Business Application Programming Interfaces)
- ☐ E XDTP(Extended Data Transfer Protocol)
- ☐ F STP(SAP Transfer Protocol)

42. You can use BAPIs to:

*Choose the correct answer(s).*

- ☒ A Request data from an SAP System
- ☒ B Pass data to an SAP system
- ☐ C Transfer SAP screen images to third-party applications (such as MS Word)
- ☒ D Access business processes in SAP systems

43. You access BAPIs in SAP systems using an RFC interface.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

44. SAP Business Workflow ensures that:

*Choose the correct answer(s).*

- ☒ A Appropriately configured business processes can be partially automated
- ☒ B Appropriately configured business processes are executed in consistent sequences
- ☒ C The right employee receives the right work at the right time
- ☒ D Your workflow-supported business processes are handled more efficiently
- ☐ E All your company processes that have been implemented in ABAP run without errors

45. You can also use SAP Business Workflow functions (for example, with XML) to trigger functions in other systems.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

46. The SAP ITS provides the following functions/options:

*Choose the correct answer(s).*

- ☒ A Automatically converts protocols from HTTP to DIAG/RFC and back
- ☒ B Automatically generates SAP screens as HTML pages
- ☒ C Uses IACs to implement predefined Internet scenarios
- ☐ D Sends IDocs
- ☐ E The WGate communicates directly with dialog work processes
- ☒ F The AGate communicates with SAP system application servers

47. The following statements are true of the SAP Web Application Server:

*Choose the correct answer(s).*

- ☒ A The SAP Web AS enables the creation of Business Server Pages
- ☐ B The ICM is a process outside the SAP Web AS, as is the SAP ITS
- ☐ C The ICM uses a Web server to communicate with Web browsers
- ☒ D You can use a URL to call Business Server Pages directly in your browser
- ☐ E You can only install the SAP Web AS in conjunction with the SAP ITS

48. The SAP BC enables ALE scenarios across company boundaries.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

49. SAP provides the following tools free of charge to help you organize your data transfer project:

*Choose the correct answer(s).*

- ☒ A Data Transfer Workbench (DX Workbench)
- ☐ B Data Transfer Enabler (DTE)
- ☐ C Flat File Importer (FFI)
- ☒ D Legacy System Migration Workbench (LSMW)
- ☐ E Database Content Replicator (DCR)
- ☐ F ERP Data Transfer Wizard (EDTW)

50. The following methods and interfaces are available for importing data into SAP systems:

*Choose the correct answer(s).*

- ☒ A BAPIs (Business Application Programming Interfaces)
- ☒ B IDocs (Intermediate Documents)
- ☒ C Batch input
- ☐ D DIIs (Data Import Interfaces)
- ☐ E STF (SAP table filler)
- ☐ F None of the above

51. Select user passwords that are valid in an SAP system:

*Choose the correct answer(s).*

- ☐ A SAP\*
- ☐ B PASS
- ☐ C 111
- ☐ D A§
- ☒ E mi45no
- ☒ F other4

52. If you are using a directory service with the LDAP protocol, then there is only one synchronization direction: the directory service overwrites data in the SAP system.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

53. Which of the following transaction codes can you use to view/edit user logons?

*Choose the correct answer(s).*

- ☒ A SM04
- ☐ B SM30\_USERS\_SSM
- ☐ C USER
- ☒ D AL08
- ☐ E SM51

54. You can use transaction SM50 (Work Process Overview) to display the amount of CPU time used by individual work processes since the last time they were started.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

55. When the local SysLog file reaches its maximum size, it is closed and a new SysLog file is created. The file name, which is automatically generated, includes a time stamp.

*Determine whether this statement is true or false.*

- True
- **False**

56. Transaction RZ20 offers the following options:

*Choose the correct answer(s).*

- **A Central monitoring of several SAP systems**
- **B Simple definition of system-specific threshold values**
- **C Links to many standard administration functions**
- **D Monitoring of systems with releases prior to 4.0B**
- **E Definition of automatic reactions to specific system statuses**
- F Simple restarts of entire SAP systems or individual instances

57. The SAP Service Marketplace is directed at which of the following?

*Choose the correct answer(s).*

- A Every one who is interested in SAP
- B SAP employees
- **C SAP partners**
- **D SAP customers**
- E SAP competitors

**Answers**

1. What possibilities does the mySAP.com e-business solution have to offer?

**Answer:** A, B, C, D, E

All of the above

2. The portal solution provided by SAP Portals also allows you to access ERP solutions from other providers.

**Answer:** True

Yes, SAP Portals' enterprise portals enable you to access data and functions delivered by other software providers.

3. The following solutions are provided by SAP:

**Answer:** B, C, D, F

mySAP BSE and mySAP SOP are imaginary products. The others are SAP solutions.

4. mySAP Technology contains, but is not limited to the following elements:

**Answer:** A, B, D, E

All the objects named above are elements of mySAP Technology, with the sole exception of the Linux operating system.

5. Which of the following statements about the SAP Web Application Server are correct?

**Answer:** B, E

The SAP Web AS represents logical further development of SAP Basis, focused on new, Internet-oriented functions (including native SMTP). The SAP Web AS is platform-independent and can run on all operating systems supported.

6. You can only work in one window (session) at a time in an SAP system.

**Answer:** False

You can work in up to 6 windows (sessions) simultaneously per logon.



7. Which of the following statements accurately describe a client in an SAP system?

**Answer:** A, D

The data for all clients in an SAP system is stored within a single common database. This data is nevertheless divided by client so that different companies can be administered and controlled in different clients. A client is **not** a customer within an SAP system.

8. The following strings are valid entries in the command field:

**Answer:** A, B, D, E, F

You can enter valid transaction codes directly on the SAP Easy Access screen. If you are in another function, you need to enter **/n** in front of the transaction code. **/nend** and **/nex** are two different logoff options. **?SM04** is not a valid entry. **search\_sap\_menu** is a valid entry; it creates a search screen for entries in the SAP menu.

9. You can use the F1 key to:

**Answer:** A, E

The F1 help provides documentation and technical information on a field.

10. You can use the F4 key to:

**Answer:** D

The F4 key provides a list of possible entries for a selected field.

11. You can also call the context-sensitive SAP Library using the F1 key.

**Answer:** True

You can call the context-sensitive help using the *Application Help* pushbutton in the F1 help window.

12. The following personalization options are available in the SAP GUI:

**Answer:** A, B, D, F

Numerous personalization options are available, using the *Extras* menu, the *Customizing of local layout* pushbutton, the status bar and *Help → Settings....* End users cannot, however, change the size of input fields. You also cannot use the SAP GUI to display a picture of your choice on the SAP Easy Access screen.

13. What are the advantages of a three-tier client/server configuration as compared to a single-tier or two-tier configuration?

**Answer:** A, C

Implementing an additional hardware layer for application processes makes it easier to adapt an SAP system if the number of users changes (scalability), and to assign user groups to specific application servers (software-oriented view), (load balancing). The additional hardware layer does not, however, reduce the administrative workload.

14. Which process at the application server level receives the user request?

**Answer:** B

The dispatcher receives the user request on the application server and passes it on to an available work process. The SAP presentation program, SAP GUI, is not part of the application server (software-oriented view), and the buffer enables quicker processing of user requests.

15. What types of SAP GUI are there?

**Answer:** A, B, D

There is a SAP GUI for the Windows environment, based on the Windows platform, there is a platform-independent SAP GUI for the Java environment, and a SAP GUI for HTML, consisting of a browser and an Internet Transaction Server. There is no such thing as SAP GUI for Linux.

16. The SAP Web Application Server database interface enables you to:

**Answer:** A, C

When the ABAP Interpreter sends a query to the database, the database interface reads the data from the SAP Web Application Server's local buffer, if possible. If the data required is not present in the buffer, then the interface turns the Open SQL statement from the ABAP coding into database-specific native SQL coding. The database interface is not used to access the content of online databases on the Internet or files on the SAP Web Application Server.

17. Which work process types can you find on an SAP Web Application Server?

**Answer:** A, C, E, F, G

All of the above processes can in theory be configured on an SAP Web Application Server. However, not all of the above processes are work processes. The message server and ICM process are not work processes.

18. The term **central instance** describes the instance

**Answer:** B

The central instance is the instance on which all application processes required for operating an SAP system are configured. Specifically, the central instance therefore also contains processes that are only present once per system (such as the message server). Every instance has a gateway process, the existence of a gateway process does not therefore denote the central instance. The number of dialog work processes, or the total number of work processes configured on the central instance is not relevant in this context.

19. What tasks does the task handler carry out?

**Answer:** B

The task handler coordinates activities within a work process. The work process and the user's SAP GUI do not communicate directly, but through the dispatcher. The database is accessed through the database interface and the ABAP coding is executed by the ABAP processor.

20. Is the assignment of users to dialog work processes fixed?

**Answer: C**

The dispatcher reassigns the user to a dialog work process for each dialog step in a transaction. The assignment of users to dialog work processes is therefore not fixed. (The only exception to this rule is the debugging mode, in which one dialog process is assigned to one specific user.)

21. Database transactions are based on the ACID principle, as are SAP transactions. Why does the database transaction concept nevertheless not cover all the needs of the SAP system?

**Answer: A, B**

Every dialog work process starts a new database transaction within each dialog step. An SAP transaction can bundle several database transactions into units that makes sense in business terms . this is not related to performance issues.

22. Where is the lock table?

**Answer: B**

The lock table is located in the main memory of the SAP Web Application Server on which the enqueue work process is configured.

23. It makes sense, in an SAP system, to configure several enqueue work processes on different SAP Web Application Servers.

**Answer: False**

It does **not** make sense to configure enqueue work processes on different SAP Web Application Servers, since there can be only one lock table per SAP system and this lock table is located in the main memory of the SAP Web Application Server on which the enqueue work process is configured.

24. Why are asynchronous updates used for dialog transactions?

**Answer: B**

Asynchronous updates solve the problems caused by the different interpretations of transaction at database level and at SAP level. Bundling all updates for one SAP transaction into a single database transaction ensures that the data that belongs to this SAP transaction can be rolled back completely. Every work process is continuously connected to the database, therefore every work process can access the database dataset. Access to the SAP system buffers does not depend on the type of update used.

25. During asynchronous updates, which process records the data to be changed in VB\* tables?

**Answer: D**

The dialog process records the data to be changed in the VB\* tables, while the update work process handles the final update of the target tables (the tables that are actually relevant to business). There is no such thing as a recording work process.

26. What is background processing used for?

**Answer: A, C**

Background processing is typically used for long-running tasks or tasks that recur regularly. The prerequisite is that these tasks do not require user interaction. The spool work process is responsible for printing lists.

27. Answer the following questions with reference to the two access methods you have learned about, remote and local. Other answers may be correct for other access methods. Which work process types are primarily responsible for **creating** spool requests?

**Answer: A, D**

Most printing requests are started in the dialog or in background processing.

28. Which processes and hardware elements are involved (and in what order) in handling the print process using the remote access method? The flow is only outlined here.

**Answer: C**

Depending on the settings of the relevant system parameters, the TemSe might be located in different places: normally it is either in the database or at file-system level on the central instance.

29. What data is contained in a client?

**Answer: C**

A client contains client-specific Customizing, user data, and application data.

30. The data structure of an SAP system consists of:

**Answer: B**

An SAP system consists of clients, cross-client Customizing, and the Repository.

31. Why does SAP recommend a three-system landscape?

**Answer: A, B**

Recommending the three-system landscape does not sell more licenses, since you can set up several SAP systems on one license, although you can only use one of these systems as the production system. You can always create several clients in an SAP system.

32. Every developer has to create and release their own change requests.

**Answer: False**

The development leader creates and releases change requests.

33 What is the ABAP Workbench?

**Answer: C**

The ABAP Workbench is the SAP system's integrated graphical development environment. It supports, among other things, the development and administration of applications written in ABAP, SAP's programming language. The Workbench also contains transactions for assessing the performance of ABAP commands and for managing development projects. These are, however, simply components of the Workbench.

34. How can you access an SAP transaction's underlying ABAP code (assuming that you have the authorization to do so)?

**Answer: A, C**

You can access the source code using *System* → *Status* and choosing *Program (Screen)*, or using the ABAP Editor. The menu path *System* → *Status* is available on every screen.

35. What do you use domains for?

**Answer: A**

You use domains for defining the technical attributes of fields in a table. The semantic attributes of a field are defined in the data element.

36. What is a foreign key ?

**Answer: C**

A foreign key defines a relationship between two tables. A foreign key assigns the fields of one table (known as the foreign key table) to the primary key fields of another table (known as the check table). The technical attributes of table fields are defined in a domain. You need an object key to edit Repository objects.

37. When a development project is complete, the tasks and change requests must be released so that they can be exported. Who releases which objects?

**Answer:** A, B

Every developer releases their own subtasks. Then the development leader releases the request as a whole. Requests cannot be released automatically.

38. The developer carries out the import into the target systems.

**Answer:** False

The import into the target system is started by the transport administrator in the Transport Management System (TMS).

39. You can carry out the entire software development cycle in the SAP system using the ABAP Workbench tools.

**Answer:** True

Transactions, tools, and interfaces for all phases of the software development process are available in the SAP system.

40. Application Link Enabling (ALE) allows you to:

**Answer:** C, D

ALE is a very powerful method of exchanging data between systems. These systems may be located within the same company, or they may be distributed between several companies. The data is transferred in agreed formats (such as XML or IDoc) using various technologies (RFC; HTTP). The transfer type may be synchronous or asynchronous.

41. The following interfaces and communication options are supported by SAP systems:

**Answer:** A, B, C, D

From an SAP system, you can communicate with other systems using, for example, HTTP, SMTP, RFC, or BAPIs. XDTP and STP do not exist.



42. You can use BAPIs to:

**Answer:** A, B, D

You can use BAPIs to access business processes in an SAP system and to request and transfer data between systems. GUI functions cannot be transferred to third-party products.

43. You access BAPIs in SAP systems using an RFC interface.

**Answer:** True

BAPIs are nothing other than special, remote-enabled function modules. They can therefore also be addressed using RFCs.

44. SAP Business Workflow ensures that:

**Answer:** A, B, C, D

Supporting business processes with workflow enables the work steps that belong to these processes to be handled on a partially automated basis. These steps are assigned in consistent sequences to the appropriate employee at the right point in time. This enhances processing efficiency. Using workflow obviously does not guarantee that the programs you write will always run without errors.

45. You can also use SAP BusinessWorkflow functions (for example, with XML) to trigger functions in other systems.

**Answer:** True

You can use workflow to send XML messages that then trigger subsequent actions in other systems, as long as they are appropriately configured.

46. The SAP ITS provides the following functions/options:

**Answer:** A, B, C, F

The SAP ITS automatically converts protocols from HTTP to DIAG/RFC, and vice versa; it also generates HTML pages from SAP screens and makes predefined Internet scenarios available as IACs. The ITS does not send IDocs, nor does the WGate communicate directly with work processes. The application gateway carries out this part of the communication process.

47. The following statements are true of the SAPWeb Application Server:

**Answer:** A, D

The SAPWeb AS provides the ICM as a completely integrated process that enables you to call BSPs directly, using a URL. You do not need either an SAP ITS or a Web server to do this.

48. The SAP BC enables ALE scenarios across company boundaries.

**Answer:** True

Because the SAP BC can transfer data in XML format to other systems, it enables interenterprise ALE scenarios.

49. SAP provides the following tools free of charge to help you organize your data transfer project:

**Answer:** A, D

The Data Transfer Workbench and the Legacy System Migration Workbench.

50. The following methods and interfaces are available for importing data into SAP systems:

**Answer:** A, B, C

BAPIs, IDocs and batch input, along with direct input, are the primary procedures used to import data into an SAP system. The remaining answers are wrong.

51. Select user passwords that are valid in an SAP system:

**Answer:** E, F

The rules for passwords do not allow SAP\* or PASS, two-character passwords or passwords beginning with three identical characters.

52. If you are using a directory service with the LDAP protocol, then there is only one synchronization direction: the directory service overwrites data in the SAP system.

**Answer:** False

You can set the direction of synchronization individually for each field: data in SAP system is overwritten or data in directory service is overwritten.

53. Which of the following transaction codes can you use to view/edit user logons?

**Answer:** A, D

You can use transactions SM04 and AL08 to edit or only view user sessions. The other options either do not exist or are not relevant to viewing user sessions.

54. You can use transaction SM50 (Work Process Overview) to display the amount of CPU time used by individual work processes since the last time they were started.

**Answer:** True

CPU time consumption is recorded for every work process and can be displayed in transaction SM50 using *CPU*. When a process is restarted, it is not only allocated a new process ID by the operating system, but the internal timer is also reset.

55. When the local SysLog file reaches its maximum size, it is closed and a new SysLog file is created. The file name, which is automatically generated, includes a time stamp.

**Answer:** False

When the local SysLog file reaches its maximum size (set by profile parameters), the oldest records are overwritten (cyclical overwriting).

56. Transaction RZ20 offers the following options:

**Answer:** A, B, C, D, E

The options listed are, with the exception of the last one, supported by transaction RZ20.

57. The SAP Service Marketplace is directed at which of the following?

**Answer:** C, D

The SAP Service Marketplace is directed at SAP customers and SAP partners.

# *Chapter 2*

## **SAP Web AS Administration I**

The questions in this Unit will prepare you in providing a broad insight into the many tasks of SAP system administrators and creates a solid foundation for the SAP system Administrators.

You will be able to demonstrate your ability to:

- Start and stop SAP systems
- Configure SAP systems
- Configure the online documentation
- Perform periodic, automated work with the database
- Use basic functions of SAP data archiving
- Use transport functions in SAP systems
- Import Support Packages, Plug-Ins, and Add-Ons
- Use background processing efficiently
- Define and include printers
- Perform basic user administration tasks
- Set up remote connections
- Set up system monitoring
- Describe the SAP Solution Manager
- Perform structured troubleshooting
- Explain various system security terms in the SAP environment

1. What types of work processes are there in the SAP system?

*Choose the correct answer(s).*

- ☒ A Update work process
- ☒ B Spool work process
- ☒ C Dialog work process
- ☐ D ICM work process
- ☒ E Enqueue work process
- ☐ F Instance work process

2. Which button(s) can you use to create new entries in the SAP Logon system list?

*Choose the correct answer(s).*

- ☐ A Properties
- ☒ B New
- ☐ C Logon
- ☒ D Groups
- ☒ E Server
- ☐ F Create

3. What possible advantages does the correct use of logon groups offer?

*Choose the correct answer(s).*

- ☐ A The users are automatically logged on to the correct system
- ☒ B The program buffers perform better
- ☒ C The program buffers can be set up smaller
- ☐ D The program buffers may now be larger than 1 GB in size

4. With which transaction can you obtain an overview of the instances of your SAP system?

*Choose the correct answer(s).*

- ☐ A SM50
- ☒ B SM51
- ☐ C SM52
- ☐ D SM04

5. Which SAP processes are started when the SAP system or an instance is started?

*Choose the correct answer(s).*

- ☒ A SAPOSCOL
- ☐ B START\_SAP\_NOW
- ☒ C Message Server
- ☒ D Gateway Server
- ☐ E LAUNCH\_DB

6. In which sequence are the system parameters read from the specified locations by the system?

*Choose the correct answer(s).*

- ☐ A 1. Instance profile 2. Default profile 3. Kernel
- ☐ B 1. start.ini 2. Kernel 2. Default profile 4. Instance profile
- ☒ C 1. Kernel 2. Default profile 3. Instance profile
- ☐ D 1. Kernel 2. start.ini 3. Default profile 4. Instance profile

7. In which profile can you change the number of background work processes?

*Choose the correct answer(s).*

- ☐ A Start profile
- ☐ B Default profile
- ☐ C Background profile
- ☒ D Instance profile

8. In which sequence should you perform the listed steps when setting up operation modes?

*Choose the correct answer(s).*

- ☐ A 1. Create operation modes 2. Assign instances 3. Distribute work processes 4. Maintain time table
- ☐ B 1. Create operation modes 2. Maintain time table 3. Distribute work processes 4. Assign instances
- ☐ C 1. Create operation modes 2. Distribute work processes 3. Maintain time table 4. Assign instances

9. The SAP Library provides you with information about how you can partition your hard disks.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

10. The SAP Library also offers a glossary of important terms.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

11. The SAP Library is only available in the Internet at the URL <http://help.sap.com>.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False



12. The following technical forms of the online help, also known as the SAP Library, are available:

*Choose the correct answer(s).*

- ☐ A Compressed HTML (.comphtml)
- ☒ B PlainHtmlHttp
- ☒ C PlainHtmlFile
- ☐ D StaticHelp
- ☒ E DynamicHelp
- ☐ F SAPHelpKit

13. The sapdoccd.ini file can be stored in three different places. In which sequence is the directory tree searched:

- ☐ A) C:\ProgramFiles\SAP\FrontEnd\ , C:\WINNT, C:\ProgramFiles\SAP\FrontEnd\SAPgu?
- ☐ B) C:\WINNT, C:\ProgramFiles\SAP\FrontEnd\ , C:\ProgramFiles\SAP\FrontEnd\SAPgu?
- ☐ C) C:\ProgramFiles\SAP\FrontEnd\SAPgu?, C:\ProgramFiles\SAP\FrontEnd\ , C:\WINNT
- ☐ D) C:\ProgramFiles\SAP\FrontEnd\ , C:\ProgramFiles\SAP\FrontEnd\SAPgu?, C:\WINNT
- ☒ E) C:\WINNT, C:\ProgramFiles\SAP\FrontEnd\SAPgu?, C:\ProgramFiles\SAP\FrontEnd\

14. Every archiving object in the SAP system is connected 1:1 with the content of a single database table.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

15. The names of the archive files are determined at runtime. How are these names generally specified for a specific archiving object?

*Choose the correct answer(s).*

- ☐ A By cross-object Customizing settings
- ☐ B By maintaining a local path and assigning the logical path to a physical path in the Basis Customizing
- ☒ C By assigning a physical file name to a logical file name in Basis Customizing and assigning a logical file name to an archiving object in the archiving object-specific Customizing
- ☐ D By the exact time of the archiving run

16. After data has been archived from the SAP system and deleted it from the SAP system's database, it is no longer possible to access this data with read accesses.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

17. Which elements are part of the data structure of an SAP system?

*Choose the correct answer(s).*

- ☐ A Registry repository
- ☒ B Object repository
- ☒ C Client
- ☐ D Database server
- ☒ E Cross-Client Customizing
- ☐ F SAPKernel

18. Decide which of the following statements are correct.

*Choose the correct answer(s).*

- ☐ A Entering customer data requires a Customizing request.
- ☐ B A change request contains one or more tasks.
- ☒ C A task can always be assigned to only one developer.
- ☐ D Any Customizing requires a Customizing request.

19. Which statements are correct?

*Choose the correct answer(s).*

- ☐ A The transport of objects is divided into Export, Storage, and Import phases.
- ☐ B The import into the target system is performed automatically at midnight Greenwich Mean Time.
- ☐ C The transport directory is specified by parameter DIR\_TRANS.
- ☒ D When transporting, the following rule applies: The target client is the same as the source client, unless otherwise specified.

20. What are Support Packages and Add-Ons used for?

*Choose the correct answer(s).*

- ☐ A To enter user data.
- ☐ B To import SAP object to maintain the system with a current correction status.
- ☒ C To implement additional functions in the system.
- ☐ D To transport customer-developed programs.
- ☐ E To import preliminary corrections from SAP.

21. Support Packages can be imported in any order.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

22. All SPAM/SAINT updates must always be imported.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

23. The queue for importing the SPAM update must be manually confirmed.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

24. A prerequisite for importing a SPAM/SAINT update is that there are no aborted Support Packages in the system.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

25. What status can a job have?

*Choose the correct answer(s).*

- ☐ A Running
- ☒ B Released
- ☐ C Waiting
- ☒ D Finished
- ☐ E Error
- ☒ F Active

26. Which of the listed options for time-dependent scheduling of a job can be implemented with the standard resources of the SAP system?

*Choose the correct answer(s).*

- ☒ A Daily at 1500
- ☒ B The second-last working day of every month
- ☒ C Every nine days, but not on Sundays
- ☒ D Only tomorrow at 2355
- ☒ E Every year on April 1 at 0800

27. Which of the listed options for event-dependent scheduling of a job can be implemented with the standard resources of the SAP system?

*Choose the correct answer(s).*

- ☐ A Whenever the system switches to the *Night* operation mode
- ☒ B After the job *Job1* has run successfully
- ☒ C Whenever a particular event has been triggered
- ☐ D Whenever the periodic job *Job2* has run successfully

28. If one of the system's ten background work processes is reserved for class A jobs, and jobs are being processed in the other nine work processes, the reserved work process remains free even if a class A job is waiting for execution.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

29. If a user has authorization to schedule an external program as a step of a background job, he or she can run any operating system command.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

30. Which of the following access methods exist in the SAP system?

*Choose the correct answer(s).*

- ☒ A Remote printing
- ☒ B Front end printing
- ☐ C Instance printing
- ☒ D Local printing

31. Which of the listed states can a spool request have?

*Choose the correct answer(s).*

- ☒ **A Compl.**
- ☐ B Cancelled
- ☒ **C Error**
- ☒ **D Waiting**
- ☐ E Active
- ☒ **F Print.**

32. How are authorizations assigned to a user?

*Choose the correct answer(s).*

- ☒ **A Users are assigned authorizations using profiles.**
- ☒ **B Users are assigned authorizations using roles.**
- ☐ C Users are assigned authorizations using user names.
- ☐ D Users are assigned authorizations using a Certification Authority.

33. The SAP authorization concept is a positive concept because ...

*Choose the correct answer(s).*

- ☐ A every user automatically receives all authorizations.
- ☒ **B authorizations must be explicitly assigned.**
- ☐ C the range of features of the authorization check is so large.
- ☐ D the developers programmed it efficiently.

34. Which Remote Function Call procedures does an SAP system provide?

*Choose the correct answer(s).*

- ☒ **A synchronous RFC**
- ☐ B reflexive RFC
- ☐ C looped RFC
- ☒ **D transactional RFC**
- ☐ E cut-through RFC
- ☒ **F queued RFC**

35. What can alert monitoring be used for?

*Choose the correct answer(s).*

- ☐ A Database backup
- ☐ B Updating data
- ☒ C Monitoring the database and the SAP system
- ☐ D Configuring and monitoring the firewall

36. Why include remote systems in your alert monitoring?

*Choose the correct answer(s).*

- ☐ A To transport program code from system to system.
- ☐ B To create a local connection to a database backup of remote systems
- ☒ C To be able to monitor these remote systems centrally.
- ☐ D To allow file sharing.
- ☐ E To connect an LDAP server.

37. What types of monitors are there in the SAP system?

*Choose the correct answer(s).*

- ☐ A Ruled monitors
- ☐ B Statistical monitors
- ☒ C Rule-based monitors
- ☒ D Static monitors
- ☐ E Self-Repairing monitors

38. Properties variants are used to...

*Choose the correct answer(s).*

- ☐ A Store user master data
- ☐ B Customize transport requests
- ☒ C Store CCMS alert monitoring settings
- ☐ D Store combinations of parameters for calling an ABAP report

39. With which of the following transactions can you activate a trace for SQL statements in the SAP system?

*Choose the correct answer(s).*

- ☒ A Performance trace
- ☐ B System log
- ☒ C System trace
- ☐ D Database performance analysis

40. Which port does SAPLPD use under Microsoft Windows, by default?

*Choose the correct answer(s).*

- ☐ A 007
- ☒ B 515
- ☐ C 516
- ☐ D 517
- ☐ E 815
- ☐ F The port defined by profile parameter *rspo/port*

41. Evaluate the following statements.

*Choose the correct answer(s).*

- ☐ A SAP\* and DDIC are SAP users with no critical authorizations.
- ☒ B By default, user DDIC exists only in client 000.
- ☒ C HTTP, encrypted using SSL, is called HTTPS.
- ☒ D The ICM can accept encrypted connections.



## Answers

1. What types of work processes are there in the SAP system?

**Answer:** A, B, C, E

The ICM (Internet Communication Manager) is not a work process, but rather a service of the SAP Web Application Server. An instance consists of a dispatcher and multiple work processes. The instance itself is therefore not a work process. In addition to the correct work process types listed above, there are also background work processes.

2. Which button(s) can you use to create new entries in the SAP Logon system list?

**Answer:** B, D, E

You can use the *Properties* button to display the properties of an entry. You can use the *Logon* button to log on the selected system. There is no *Create* button in the SAP Logon program.

3. What possible advantages does the correct use of logon groups offer?

**Answer:** B, C

The users still need to log on to the system in the normal way after logon groups have been configured. Creating logon groups is not a prerequisite for setting buffer sizes of above 1 GB.

4. With which transaction can you obtain an overview of the instances of your SAP system?

**Answer:** B

Transaction SM50 lists the work processes of an instance. Transaction SM52 does not exist, and transaction SM04 calls the user list for an instance.

5. Which SAP processes are started when the SAP system or an instance is started?

**Answer:** A, C, D

SAPOSCOL is an underlying process that should always be running, even if the SAP system is shut down. START\_SAP\_NOW and LAUNCH\_DB are made up. The message server is started once for each SAP system, and the gateway server is started once for each instance.

6. In which sequence are the system parameters read from the specified locations by the system?

**Answer:** C

There is no file called start.ini involved in this context; it has been made up.

7. In which profile can you change the number of background work processes?

**Answer:** D

The instance profile is the correct profile in this case, as settings in this profile only apply to the affected instance, and the number of work processes for an instance is to be defined here. The start profile contains information about the processes to be started during the system start. In the default profile, you maintain parameters that apply to all instances or for the entire SAP system. The background profile does not exist.

8. In which sequence should you perform the listed steps when setting up operation modes?

**Answer:** A

It is especially important that you follow the correct sequence when first setting up the operation modes.

9. The SAP Library provides you with information about how you can partition your hard disks.

**Answer:** False

Partitioning hard disks is not part of the SAP Library.

10. The SAP Library also offers a glossary of important terms.

**Answer:** True

Yes, it does.

11. The SAP Library is only available in the Internet at the URL <http://help.sap.com>.

**Answer:** False

The SAP Library can and should also be set up locally, for example on a file or Web server.

12. The following technical forms of the online help, also known as the SAP Library, are available:

**Answer:** B, C, E

Compressed HTML does not exist, although Compiled HTML (.chm) does. Compiled HTML is the recommended format for 32 bit Microsoft Windows front ends. The other help types are PlainHtmlHttp, PlainHtmlFile, and DynamicHelp.

13. The sapdoccd.ini file can be stored in three different places.

In which sequence is the directory tree searched: A) *C:\Program Files\SAP\FrontEnd\*, B) *C:\WINNT\*, and C) *C:\Program Files\SAP\FrontEnd\SAPgui\*

**Answer:** E

14. Every archiving object in the SAP system is connected 1:1 with the content of a single database table.

**Answer:** False

Different business objects could belong to each archiving object in the SAP system. The data for these business objects could, in turn, be distributed across multiple database tables.

15. The names of the archive files are determined at runtime. How are these names generally specified for a specific archiving object?

**Answer:** C

The name of the archive files is determined at runtime by settings in the archiving object-specific Customizing (assignment of a logical file name for the specific archiving object) and in the Basis Customizing (assignment of a physical file name to a logical file name in the Basis Customizing and the assignment of a logical file name). No specifications about the name of the archive file are made in cross-object Customizing. The exact time of the archiving run can appear in the name of the archiving file using a parameter, but the name is generally not determined by this alone.

16. After data has been archived from the SAP system and deleted it from the SAP system's database, it is no longer possible to access this data with read accesses.

**Answer:** False

It is still possible to access data to read it after it has been stored in the archive and deleted from the SAP system's database. Depending on the archiving object concerned, there may be a number of views between which the user can choose (such as a technical view and a business view).

17. Which elements are part of the data structure of an SAP system?

**Answer:** B, C, E

The object repository, cross-client Customizing, and the clients are part of the data structure of an SAP system. The database structure is not part of the data structure; rather, it **contains** it.

18. Decide which of the following statements are correct.

**Answer:** B, C

Entering customer data is not part of Customizing and therefore does not require a Customizing request. Only client-dependent Customizing requires a Customizing request; cross-client Customizing, on the other hand, requires a workbench request. A change request contains one or more tasks, each of which are assigned to only one developer.

19. Which statements are correct?

**Answer:** C, D

The transport is divided into only two phases, Export and Import. The import into the database of the target system is never performed automatically.

20. What are Support Packages and Add-Ons used for?

**Answer:** B, C

Support Packages are not used to enter user data. Customer developments are transported to other systems using transport requests. Preliminary corrections are imported using the SAP Note Assistant.

21. Support Packages can be imported in any order.

**Answer:** False

Support Packages must be imported in ascending order, without any gaps.

22. All SPAM/SAINT updates must always be imported.

**Answer:** False

All associated programs are always upgraded during the SPAM/SAINT update. It is therefore not necessary to follow any particular order.

23. The queue for importing the SPAM update must be manually confirmed.

**Answer:** False

It is not necessary either to define a special queue, nor to confirm this non-existent queue.

24. A prerequisite for importing a SPAM/SAINT update is that there are no aborted Support Packages in the system.

**Answer:** True

This is true, there must not be any aborted Support Packages in the system.

25. What status can a job have?

**Answer:** B, D, F

In addition to the three correct answers, a job could have the status *Scheduled, Ready, or Canceled*.

26. Which of the listed options for time-dependent scheduling of a job can be implemented with the standard resources of the SAP system?

**Answer:** A, B, C, D, E

All of the options listed can be realized by default.

27. Which of the listed options for event-dependent scheduling of a job can be implemented with the standard resources of the SAP system?

**Answer:** A, B, C

Option D cannot be realized in the standard system. However, you can implement this as one of many additional possibilities by extending the standard system using function modules.

28. If one of the system's ten background work processes is reserved for class A jobs, and jobs are being processed in the other nine work processes, the reserved work process remains free even if a class A job is waiting for execution.

**Answer:** False

The work processes that are reserved for class A jobs process class A jobs. The option to reserve work processes for class A jobs should only prevent all work processes being occupied with class B or C jobs.

29. If a user has authorization to schedule an external program as a step of a background job, he or she can run any operating system command.

**Answer:** True

If you do not want, as an administrator, to assign this critical authorization, but want to enable your users to run a specific operating system command, you can define an external command in the SAP system.

30. Which of the following access methods exist in the SAP system?

**Answer:** A, B, D

Instance printing does not exist.

31. Which of the listed states can a spool request have?

**Answer:** A, C, D, F

The incorrect options *canceled* and *active* are possible status messages from job monitoring. Other possible statuses of a spool request are *-*, *+*, *Proc.*, *<F5>*, *Problem*, and *Time*.

32. How are authorizations assigned to a user?

**Answer:** A, B

Authorizations are combined into profiles. The roles assigned to users contain profiles with appropriate authorizations for the role. Authorizations are not assigned using user names or a CA.

33. The SAP authorization concept is a positive concept because ...

**Answer: B**

SAP uses a positive authorization concept. This means that everything that is not explicitly allowed is automatically forbidden.

34. Which Remote Function Call procedures does an SAP system provide?

**Answer: A, D, F**

In addition to the three correct answers (synchronous, transactional, and queued RFC), the system also provides asynchronous RFC and FastRFC.

35. What can alert monitoring be used for?

**Answer: C**

Monitoring objects are only monitored, not administered using alert monitoring. The range of monitored is very large, since monitors can also be created for .exotic. objects.

36. Why include remote systems in your alert monitoring?

**Answer: C**

Including remote systems should allow you to monitor these systems centrally.

37. What types of monitors are there in the SAP system?

**Answer: C, D**

There are static and rule-based monitors.

38. Properties variants are used to...

**Answer: C**

CCMS alert monitoring settings are stored with properties variants



39. With which of the following transactions can you activate a trace for SQL statements in the SAP system?

**Answer:** A, C

You can analyze SQL statements by activating the trace in transaction ST01 (system trace) or ST05 (performance trace). Transaction SM21 (System Log) is the system log and ST04 (Database Performance Analysis) is used to analyze database statistics.

40. Which port does SAPLPD use under Microsoft Windows, by default?

**Answer:** B

Port 515 is used by default.

41. Evaluate the following statements.

**Answer:** B, C, D

SAP\* and DDIC certainly do have critical authorizations. The other statements are true.

# *Chapter 3*

## **SAP Web AS Administration II**

The questions in this unit provides an insight into different areas of the administration of SAP systems based on an SAP Web Application Server.

You will be able to demonstrate your ability to:

- Perform administrative tasks that affect the SAP Web AS technical infrastructure and configuration
- List and evaluate technology components of SAP systems in the Internet environment
- List the requirements for an SAP system used worldwide
- Explain the procedures for telephone integration and for sending mail from SAP systems
- Describe the eCATT procedure for automated tests
- Setup Central User Administration
- Connect an SAP Web Application Server to a directory service
- Explain the purpose of the SAP Exchange Infrastructure

1. Which of the following technology components can be used together with an SAP R/3 Enterprise system?

*Choose the correct answer(s).*

- ☐ A SAP Internet Transaction Server (SAP ITS)
- ☐ B Internet Communication Manager (ICM)
- ☐ C SAP J2EE Engine

2. Which tools can you use to administer an SAP ITS?

*Choose the correct answer(s).*

- ☐ A Commands at operating system level
- ☐ B Transaction SITS in the SAP system
- ☐ C ITS Administration tool
- ☐ D Microsoft Management Console with the SAP ITS Snap-In

3. Which statement is correct?

*Choose the correct answer(s).*

- ☐ A The ICM is implemented as a thread and is available for a large number of operating systems.
- ☐ B You can use an instance profile parameter to configure how many ICMs are started for each dispatcher.
- ☐ C SAP recommends that you operate a separate ICM for each client in an SAP system.
- ☐ D None of the above answers is correct.

4. The ICM is relevant only for applications based on BSPs.

*Determine whether this statement is true or false.*

- ☐ True
- ☐ False

5. In which trace/log file can you identify whether the SAP J2EE Engine was correctly started?

*Choose the correct answer(s).*

- ☐ A dev\_w0
- ☒ B dev\_disp
- ☐ C dev\_icm
- ☐ D sapstart.log

6. What are the names of the significant components that make up the SAP J2EE Engine?

*Choose the correct answer(s).*

- ☐ A Clusters
- ☒ B Dispatchers
- ☒ C Servers
- ☐ D Work Processes
- ☐ E ICM

7. Which statement(s) is/are correct?

*Choose the correct answer(s).*

- ☐ A The SAP Web dispatcher stores system information in a small local database.
- ☒ B The SAP Web dispatcher knows the capacity of all application servers in the SAP system.
- ☐ C The SAP Web dispatcher makes a firewall superfluous.
- ☒ D The SAP Web dispatcher communicates with the message server.

8. Which statements are correct with regard to globalization?

*Choose the correct answer(s).*

- A The logon language for the SAP system is determined by the country version.
- B A country version must always be imported as an add-on before it can be used.
- C Time zones can be attached to a user master record or an object.
- D The time zone from the user master record is taken into account in all SAP Basis/SAP Web AS transactions.
- E Before time zones can be used, they must be defined in the system, together with any daylight saving time definition.
- F A global company must essentially be mapped as a single client in a single SAP system, as otherwise no integrated business processes are possible.

9. What must be taken into account when importing an additional language into an SAP system?

*Choose the correct answer(s).*

- A After the actual import of the language package, language-dependent texts from Support Packages that have already been imported must also be imported using transaction SMLT.
- B The Support Packages that had been imported into the SAP system at the time of the language import must be completely imported again using transaction SPAM.
- C Languages that are not completely translated require a supplementation language to fill translation gaps.
- D All available languages are already available in the database of the SAP system and you must now use transaction SMLT to make them known in the system.
- E You can use transaction SMLT to perform the language import in parallel using multiple R3trans processes.

10. Which statements are correct with regard to code pages?

*Choose the correct answer(s).*

- A Every language requires a separate, individual code page.
- B Multiple code pages can be operated simultaneously on an instance in one client in an SAP system.
- C With Unicode, all characters that are relevant for business can be mapped in one single code page. MDMP is then no longer required.
- D During an upgrade from SAP R/3 4.x to SAP Web AS 6.20/SAP R/3 Enterprise, an SAP R/3 system is automatically converted to Unicode. This is known as Unicode migration (Unicode Switch Upgrade).
- E With MDMP, one character is basically represented by one byte.
- F Unicode uses two bytes to represent every character.

11. Which of the following statements regarding SAPconnect are correct?

*Choose the correct answer(s).*

- A As of SAP Web AS 6.10, a Microsoft Exchange Infrastructure must be set up outside the SAP system to be able to send mail from SAP systems.
- B It is not possible to connect the UNIX-based *sendmail* to SAP systems.
- C SAPconnect allows you to send mail both by RFC and the SMTP plug-in of the SAP Web AS.
- D SAPconnect is configured cross-client.
- E A send process automatically runs periodically in every SAP system after the system installation.

12. The connection of a mail server to an SAP system to send e-mails using SMTP from the SAP system runs through an SAPconnect node.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

13. How can the SAP system be connected with telephone equipment in the context of SAPphone?

*Choose the correct answer(s).*

- ☒ A Using a Computer Telephony Integration (CTI) gateway from a third-party vendor
- ☐ B The connection is made automatically using Customizing settings in the SAP system
- ☒ C Using the Telephony API (TAPI) interface with a TAPI Service Provider and a SAPphone Server
- ☐ D Using none of the above

14. Which possibilities does eCATT provide?

*Choose the correct answer(s).*

- ☒ A Performing centrally stored test cases on different target systems
- ☒ B Testing SAP transactions regardless of whether they use the Control Framework or not
- ☒ C Testing transactions in the SAP GUI for HTML and testing Business Server Pages
- ☒ D Testing function modules

15. There is a fixed connection between the test data required for an eCATT test case and the test script, and the data cannot be used without this fixed test script.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

16. Which statements about the relationship between system data containers and test scripts are true?

*Choose the correct answer(s).*

- ☐ A A system data container is always associated with only one test script.
- ☒ B Multiple test scripts can access the same system data container.
- ☐ C Each entry in the system data container must also appear in the test script at least once.
- ☒ D Only systems that are entered in an associated system data container can be accessed from a test script.

17. Which eCATT driver is suitable for recording and running SAP transactions that run in SAP GUI for Windows?

*Choose the correct answer(s).*

- ☒ A SAPGUI
- ☐ B FUN
- ☒ C TCD
- ☒ D WINGUI

18. Which of the following statements with regard to Central User Administration are correct?

*Choose the correct answer(s).*

- ☐ A CUA can be implemented as of SAP R/3 4.0B.
- ☐ B Only SAP R/3 systems can be linked to a CUA.
- ☒ C CUA uses an ALE setup.
- ☒ D The clients linked by CUA are called logical systems.
- ☒ E The clients linked with the CUA are known as the .central system. and .child systems..



19. Which of the following statements about logical systems are correct?

*Choose the correct answer(s).*

- ☐ A Logical systems are defined cross-client.
- ☒ B The IDs of logical systems can be assigned to clients.
- ☐ C The naming convention for logical systems is LOGSYS###, where ### corresponds to a client ID.
- ☐ D Multiple logical system IDs can be assigned to a client.
- ☒ E In the context of a CUA, the clients involved are addressed as logical systems.

20. Which of the following statements about the required RFC connections in a CUA are correct?

*Choose the correct answer(s).*

- ☒ A The RFC connections must be specified entirely in uppercase letters and must be identical to the name of the addressed logical system.
- ☐ B The user in the RFC connection must be a dialog user.
- ☐ C An RFC connection from the child system to itself is required.
- ☒ D An RFC connection from the central system to itself is required.
- ☒ E Certain roles for the communication users are required only during CUA setup, and can then be removed from the relevant user master records.

21. With which methods is it possible to create users in child systems in the context of an active CUA?

*Choose the correct answer(s).*

- A In the child system with transaction SU01, *Systems* tab page
- **B In the central system with transaction SU01, *Systems* tab page.**
- C In the central system with transaction PFCG
- D In the child system with transaction PFCG
- **E In the central system with transaction SU01, *Roles* tab page**

22. Directory services can only be used as a repository for information about users.

*Determine whether this statement is true or false.*

- True
- **False**

23. Which prerequisites must be fulfilled on the SAP side to use an SAP Web AS with a directory server?

*Choose the correct answer(s).*

- **A Host Name and Port Number of the directory server are maintained under *Connection Data*.**
- B In user maintenance (transaction SU01), there is a user of type *System*, that has read and write authorization for the directory server.
- C The operating system program *dap\_rfc* is running on the host, on which the Directory Server is running.
- **D The names of the RFC destination and the associated Connector definition are identical.**

24. During a synchronization process, data can be simultaneously imported and exported for a user.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

25. Which of the following statements about the SAP Exchange Infrastructure are correct?

*Choose the correct answer(s).*

- ☐ A The SAP Exchange Infrastructure maps the integration information about direct one to one connections between the individual systems.
- ☒ B The SAP Exchange Infrastructure is the SAP platform for process integration, and is based on the exchange of XML messages.
- ☒ C The SAP Exchange Infrastructure is based on an open architecture and primarily uses open standards.
- ☐ D The connection of the individual applications and the message flow between the applications is stored on all systems involved.

26. Which components are part of the SAP Exchange Infrastructure?

*Choose the correct answer(s).*

- ☒ A Integration Repository
- ☐ B Data Dictionary
- ☒ C Integration Server
- ☐ D Integration Manager

27. Which statuses does the status display for XML messages show?

*Choose the correct answer(s).*

- ☐ A Lost XML messages
- ☒ B XML messages being processed
- ☒ C XML messages with errors
- ☒ D Deleted XML messages

## Answers

1. Which of the following technology components can be used together with an SAP R/3 Enterprise system?

**Answer:** A, B, C

All of the above. The SAP ITS can be used with any SAP system (as of SAP Basis 3.1G). The technical foundation of SAP R/3 Enterprise is SAP Web AS 6.20 – for which the ICM and SAP J2EE Engine can be configured.

2. Which tools can you use to administer an SAP ITS?

**Answer:** A, C

There are various programs at operating system level after an SAP ITS installation that you can use to administer an SAP ITS. The browser-based ITS Administration tool, with which you can also monitor remote SAP ITS instances, is easier to use.

3. Which statement is correct?

**Answer:** D

All of the answers provided are incorrect. The ICM is a process (which internally consists of multiple threads) that is available for all operating systems supported by SAP. You can use a profile parameter to configure either no ICM or one ICM for each SAP instance (and therefore for each dispatcher). Scaling is performed using the settings for the number of threads and memory allocation.

4. The ICM is relevant only for applications based on BSPs.

**Answer:** False

Executing BSP applications requires the ICM. However, there are also other applications (Web services such as SOAP/XML or Web reporting with the SAP BW), that use the ICM and ICF but do not use BSPs). Thanks to the ICM and ICF, the SAP Web AS can also perform the role of Web client and can process other protocols such as SMTP in addition to HTML.

5. In which trace/log file can you identify whether the SAP J2EE Engine was correctly started?

**Answer:** B

The file in which the system logs whether the SAP J2EE Engine has been started is *dev\_disp*. The dispatcher starts the SAP J2EE Engine. Therefore the information is stored in the *dev\_disp* file. *sapstart.log* is the log file for the start process of an SAP system. *dev\_w0* is the trace file for a dialog work process, and *dev\_icm* is the trace file for the Internet Communication Manager (ICM) process.

6. What are the names of the significant components that make up the SAP J2EE Engine?

**Answer:** B, C

The SAP J2EE Engine consists of one or more dispatchers and servers. Work processes are only used in the .standard. SAP environment, and the ICM is the new process in SAP Web AS 6.10. A cluster is simply a term for whether you are working with multiple servers and dispatchers with the SAP J2EE Engine.

7. Which statement(s) is/are correct?

**Answer:** B, D

The SAP Web dispatcher communicates with the message server by HTTP(S) to obtain information about the available application servers (which includes their capacity). Although the SAP Web dispatcher can act as a URL filter, it does not replace the function of a firewall. Only requests that are addressed to the configured port of the SAP Web dispatcher are processed.

8. Which statements are correct with regard to globalization?

**Answer:** C, E

Centralized and decentralized system configurations with their hybrid forms, country versions, and time zones are some aspects that must be considered with a global system.

9. What must be taken into account when importing an additional language into an SAP system?

**Answer:** A, C, E

You can use transaction SMLT to import additional languages with language-dependent texts into an SAP system. You do not need to reimport Support Packages using transaction SPAM; the Support Packages are handled using transaction SMLT.

10. Which statements are correct with regard to code pages?

**Answer:** B, C

If you use MDMP, multiple code pages can be operated simultaneously in one instance of an SAP system. If you use Unicode, characters are stored with a length of up to four characters.

11. Which of the following statements regarding SAPconnect are correct?

**Answer:** C

There are two ways to sendmail in SAPconnect: by RFC connection or using the SMTP plug-in of the SAP Web AS. The other statements are incorrect.

12. The connection of a mail server to an SAP system to send e-mails using SMTP from the SAP system runs through an SAPconnect node.

**Answer:** True

To configure a send process for SMTP in the SAP system, you must, among other things, also have configured and activated an SMTP node using transaction SCOT (SAPconnect).

13. How can the SAP system be connected with telephone equipment in the context of SAPphone?

**Answer:** A, C

The connection between the SAP system and the telephone equipment is made using a CTI server. This can either be implemented using a CTI gateway from a third-party vendor or the TAPI interface in connection with a SAPphone server.

14. Which possibilities does eCATT provide?

**Answer:** A, B, C, D

You can use eCATT to perform cross-system tests. Unlike CATT, you can also test function modules and SAP transactions that use the Control Framework. It is also possible to test applications in the SAP GUI for HTML or BSPs and JSPs using an interface to external test tools.

15. There is a fixed connection between the test data required for an eCATT test case and the test script, and the data cannot be used without this fixed test script.

**Answer:** False

In eCATT, the test data used for the test is stored independently of a fixed test script in test data containers. This allows the same test data to be reused in different test cases with different test scripts.

16. Which statements about the relationship between system data containers and test scripts are true?

**Answer:** B, D

Both test scripts and system data containers are defined in the context of a test configuration. The test configuration links the initially independent objects .system data container. and .test script.. This has the advantage that system data containers can be reused; that is, multiple test scripts can access the same system data container. System data containers can contain more system entries than are required in the test script; however, only systems that are defined in the system data containers can be accessed from test scripts.

17. Which eCATT driver is suitable for recording and running SAP transactions that run in SAP GUI for Windows?

**Answer:** A, C

You can use the SAPGUI and TCD drivers for recording and running SAP transactions that run in the SAP GUI for Windows (or in the SAP GUI for Java). If the transaction does not use the Control Framework, we recommend that you use TCD; otherwise, the SAPGUI driver is required. The FUN driver is used for testing function modules. WINGUI is an imaginary name in this context.

18. Which of the following statements with regard to Central User Administration are correct?

**Answer:** C, D, E

The CUA clients linked by ALE are known as the .central system. and .child systems,. and as .logical systems.. You can connect SAP systems to a CUA if they have at least SAP Basis 4.5B or an SAP Web AS.

19. Which of the following statements about logical systems are correct?

**Answer:** A, B, E

The table that contains the IDs of the logical systems is a cross-client table. Each ID is assigned to exactly one client, and the recommendation for the naming convention is <SID>CLNT###. The clients involved in a CUA require a unique assignment to a logical system.



20. Which of the following statements about the required RFC connections in a CUA are correct?

**Answer:** A, D, E

The names assigned to the RFC connections used must be identical to the names of the logical systems, that is, also in uppercase letters. The user behind the RFC connection should be of the type *Communication*. The central system requires an RFC connection to itself. The communication users require a number of authorizations only to create the CUA; the corresponding roles can be removed from the user master records after the setting up of the CUA is completed.

21. With which methods is it possible to create users in child systems in the context of an active CUA?

**Answer:** B, E

If you are using a CUA, you can only create users in child systems using transaction SU01 in the central system. The creation of users is possible using the *Systems*, *Roles*, and *Profiles* tab pages.

22. Directory services can only be used as a repository for information about users.

**Answer:** False

Thanks to flexible data model, data about any objects (such as hardware resources or documents) can be stored in directory services . although their use for user information is particularly widespread.

23. Which prerequisites must be fulfilled on the SAP side to use an SAP Web AS with a directory server?

**Answer:** A, D

In the SAP system, the RFC destination used and the LDAP Connector must be maintained with the same name (in uppercase letters). The operating system program *ldap\_rfc* can then be started on the selected application server of the SAP system . while the directory server(s) addressed can run on remote servers (without *ldap\_rfc*). Additional Customizing includes the definition of a system user and the connection data, including the host name and port number of the directory server. The LDAP system user is stored in Customizing for the directory service connection and has nothing to do with the SAP users maintained in transaction SU01.

24. During a synchronization process, data can be simultaneously imported and exported for a user.

**Answer:** True

The synchronization indicators do not need to be identical for all mappings. It is therefore entirely possible that, for example, SAP-specific data (such as role assignments) is exported during a synchronization process, while other data (such as a fax number) is imported.

25. Which of the following statements about the SAP Exchange Infrastructure are correct?

**Answer:** B, C

The SAP Exchange Infrastructure, as the SAP platform for process integration, is based on an open architecture and the use of open standards. The integration knowledge is stored at a central location.

26. Which components are part of the SAP Exchange Infrastructure?

**Answer:** A, C

The main components of the SAP Exchange Infrastructure are the Integration Repository, the Integration Directory, and the Integration Server.

27. Which statuses does the status display for XML messages show?

**Answer:** B, C, D

You can track the status of XML messages in the context of Monitoring.

# *Chapter 4*

## **SAP R/3 Enterprise Installation**

The questions in this Unit will prepare you how to install SAP R/3 Enterprise. It describes the planning, preparation, installation, and post-installation activities performed to install SAP R/3 Enterprise. It also covers troubleshooting problems encountered during the SAP R/3 Enterprise installation.

You will be able to demonstrate your ability to:

- List the new features of SAP R/3 Enterprise
- List the requirements to install SAP R/3 Enterprise
- Perform the necessary preparation steps to install SAP R/3 Enterprise
- Install the SAP GUI
- Install a central instance, a dialog instance, and a database instance
- Install SAP J2EE Engine
- Perform the necessary post-installation activities
- Apply patches to SAP R/3 Enterprise
- List the necessary steps to convert non-Unicode to Unicode
- Handle SAPinst and installation problems

1. Data exchange between SAP J2EE Engine and SAP Web AS is available via:

*Choose the correct answer(s).*

- ☐ A MPI
- ☐ B SDM
- ☐ C ICM
- ☒ D Jco and fast RFC

2. In case of errors, SAPinst stops the installation automatically and restarts the installation process.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

3. An SAP R/3 Enterprise system does not require more hardware resources than SAP R/3 4.6C.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

4. Before installing SAP R/3 Enterprise, you should ensure that the front-end software is installed on your system environment.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

5. Which command do you use to find out the IP address of your system?

*Choose the correct answer(s).*

- ☐ A ping -a
- ☐ B hostname
- ☒ C ping <host\_name>
- ☐ D ipconfig /all

6. Which of the following file systems do you need to setup manually.

*Choose the correct answer(s).*

- ☒ A /sap
- ☒ B /sap/trans
- ☒ C /sap/<SID>
- ☒ D /sapmnt/<SID>

7. To set up installation packages, start the SAPinst.exe program.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

8. Which of the following is not a classical GUI variant to access the SAP system?

*Choose the correct answer(s).*

- ☒ A Business Explorer
- ☐ B SAPGUI for Windows
- ☐ C SAPGUI for HTML
- ☐ D SAPGUI for Java

9. You can define the installation directory for SAPinst by selecting Typical installation.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

10. What are the most important output files of the SAPinst?

*Choose the correct answer(s).*

- ☒ A Sapinst.log
- ☒ B sapinst\_dev.log
- ☐ C Gui.log
- ☒ D instgui.log

11. You cannot use a database instance ID that is different from the SAP system ID.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

12. The Kernel CD is required for the database instance installation.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

13. During the SAP J2EE installation, the central instance profile is changed. How do you activate these changes?

*Choose the correct answer(s).*

- ☐ A By restarting J2EE engine
- ☒ B By restarting the SAP system
- ☐ C The activation is dynamic and requires no restart

14. How much minimum RAM is required for SAP J2EE Engine?

*Choose the correct answer(s).*

- ☒ A 64MB
- ☐ B 128MB
- ☐ C 256MB
- ☐ D 1GB

15. While installing the dialog instance, the port number that you specify for the message server port can be different from the one specified on the central instance host.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

16. You can install a new SAP license on your SAP system. How many characters must the license key have.

*Choose the correct answer(s).*

- ☐ A 12
- ☐ B 16
- ☒ C 18
- ☐ D 20

17. How many steps are there to install SAP online documentation.

*Choose the correct answer(s).*

- ☒ A 3
- ☐ B 4
- ☐ C 5
- ☐ D 6

18. What is the need for SAProuter?

*Choose the correct answer(s).*

- ☒ A Increases network security
- ☐ B Allows you to make direct network connections
- ☐ C Required for SAPNet-R/3 backend connections
- ☒ D Required for remote consulting connections

19. There are two standard users in client 000 in SAP R/3 Enterprise after the installation.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

20. After the installation of the central instance, a temporary license is active for six weeks.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False



21. SAProuter can be started as a demon under UNIX and as a service under Windows.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

22. If you have installed your SAP system from the delivered SAP CDs (without System copy or migration), you don.t have to configure CTS after installation.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

23. Identify the activity that is not performed by Installation Check.

*Choose the correct answer(s).*

- ☐ A Completeness of installation
- ☐ B Version compatibility
- ☐ C Accessibility of the message server
- ☒ D Network security

24. You need to schedule a transport after classifying the lanuguage when installing additional languages?

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

25. After maintaining the client in table T000 what password do you use to log onto the new client as SAP\*?

*Choose the correct answer(s).*

- ☐ A 19920706
- ☒ B pass
- ☐ C 06071992
- ☐ D No password required

26. You only need to backup the SAP-specific and database directories to perform full backup for Windows.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

27. You administer the SAP J2EE Engine from within the SAP R/3 Enterprise using transaction SU01.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

28. The installation check checks, among others, whether the release number in the SAP kernel matches the one stored in the database system.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

29. You cannot activate the functions contained in SAP R/3 Enterprise Extension Set.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

30. If you perform a client copy, you need not change SAP R/3 Enterprise client of the SAPJSE user.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

31. You cannot use the SGEN transaction to generate the ABAP loads of a number of programs, function groups, and classes.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

32. When applying a patch to an existing SAP J2EE Engine, you should not select *Upgrade*.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

33. Only the BASIS and ABA Support Packages are applied to the SAP R/3 Enterprise system.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

34. To be able to perform conversion from non-Unicode to Unicode, you require non-Unicode and Unicode Kernel CD's for

*Choose the correct answer(s).*

- ☐ A Import
- ☐ B Export
- ☒ C Both

35. Flow Trace provides more detailed information about the installation progress and success.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

**Answers**

1. Data exchange between SAP J2EE Engine and SAP Web AS is available via:

**Answer:** D

SAP Java Connector is a toolkit that allows a Java application to communicate with an SAP system. Fast RFC provides an additional fast, local communication channel between SAP J2EE Engine and ABAP Engine of an SAP system.

2. In case of errors, SAPinst stops the installation automatically and restarts the installation process.

**Answer:** False

In case of errors, SAPinst stops the installation automatically and resumes it from the point of failure.

3. An SAP R/3 Enterprise system does not require more hardware resources than SAP R/3 4.6C.

**Answer:** True

Apart from the additional resources required for Unicode, an SAP R/3 Enterprise system does not require more hardware resources than SAP R/3 4.6C.

4. Before installing SAP R/3 Enterprise, you should ensure that the front-end software is installed on your system environment.

**Answer:** True

You should ensure that the front-end software is installed on at least one host computer in your system environment.

5. Which command do you use to find out the IP address of your system?

**Answer:** C

6. Name at least one file system that you need to setup manually.

**Answer:** A, B, C, D

7. To set up installation packages, start the Sapinst.exe program.

**Answer:** False

To set up installation packages you start the program SapAdmin.exe

8. Which of the following is not a classical GUI variant to access the SAP system?

**Answer:** A

You use Business Explore (BEx) to access SAP BW systems.

9. To can define the installation directory for SAPinst by selecting Typical installation.

**Answer:** False

You can define the installation directory for SAPinst by selecting Custom installation.

10. What are the most important output files of the SAPinst?

**Answer:** A, B, D

11. You cannot use a database instance ID that is different from the SAP system ID.

**Answer:** False

You can use a database instance ID that is different from the SAP system ID. However, it is recommended that you use the same ID for both the database instance and the SAP system.

12. The Kernel CD is required for the database instance installation.

**Answer:** True

SAPinst asks for the Kernel CD.

13. During the SAP J2EE installation, the central instance profile is changed. How do you activate these changes?

**Answer:** B

14. How much minimum RAM is required for SAP J2EE Engine?

**Answer:** A

15. While installing the dialog instance, the port number that you specify for the message server port can be different from the one specified on the central instance host.

**Answer:** False

During the installation of the dialog instance, the port number for the message server port must be the same as the one specified on the central instance host.

16. You can install a new SAP license on your SAP system. The license key number must 18 characters.

**Answer:** C

17. How many steps are there to install SAP online documentation.

**Answer:** A

1. Install the help files. 2. Customize setup variants for online help. 3. Install a web browser or viewer.

18. What is the need for SAProuter?

**Answer:** A, D

SAProuter increases network security, simplifies network configuration, allows you to make indirect network connections. SAProuter is required for SAPNet-R/3 frontend and remote consulting connections.

19. There are two standard users in client 000 in SAP R/3 Enterprise after the installation.

**Answer:** True

The two standard users are SAP\* and DDIC.

20. After the installation of the central instance, a temporary license is active for six weeks.

**Answer:** False

After the installation of the central instance, a temporary license is active only for four weeks.

21. SAProuter can be started as a demon under UNIX and as a service under Windows.

**Answer:** True

SAProuter is started as a demon under UNIX and as a service under Windows. This allows to start saprouter automatically after a restart of your server.

22. If you have installed your SAP system from the delivered SAP CDs (without System copy or migration), you don't have to configure CTS after installation.

**Answer:** True

Basic, initial settings for the CTS are generated during the configuration of the transport management system.

23. Identify the activity that is not performed by Installation Check.

**Answer:** D

The SAProuter software, in the standard SAP kernel, increases network security.

24. You need to schedule a transport after classifying the language when installing additional languages?

**Answer:** True

1. Classifying the language.
2. Scheduling of language transport.
3. Scheduling of language supplementation.

25. After maintaining the client in table T000 what password do you use to log onto the new client as SAP\*?

**Answer:** B

Once you maintain the client in table T000 you log onto the new client as SAP\*/pass. Copy the client and Check log files.

26. You only need to backup the SAP-specific and database directories to perform full backup for Windows.

**Answer:** False

You need to Save the Registry, Save system state data and then Back up all SAP-specific and database-related directories.

27. You administer the SAP J2EE Engine from within the SAP R/3 Enterprise using transaction SU01.

**Answer:** False

You administer the SAP J2EE Engine from within the SAP R/3 Enterprise using transaction SMICM.

28. The installation check checks, among others, whether the release number in the SAP kernel matches the one stored in the database system.

**Answer:** True

The installation check determines inconsistencies in the system.

29. You cannot activate the functions contained in SAP R/3 Enterprise Extension Set.

**Answer:** False

You activate the functions by selecting the relevant activation switch in the IMG activity, "Activation Switch for SAP R/3 Enterprise Extension Set".

30. If you perform a client copy, you need not change SAP R/3 Enterprise client of the SAPJSF user.

**Answer:** False

If you perform a client copy, you should also change SAP R/3 Enterprise client of the SAPJSF user after the client copy.

31. You cannot use the SGEN transaction to generate the ABAP loads of a number of programs, function groups, and classes.

**Answer:** False

You can use transaction SGEN to generate the ABAP loads of a number of programs, function groups, and classes.



32. When applying a patch to an existing SAP J2EE Engine, you should not select *Upgrade*.

**Answer:** False

When applying a patch to an existing SAP J2EE Engine, you should always select *Upgrade*; otherwise, you would lose the already deployed applications.

33. Only the BASIS and ABA Support Packages are applied to the SAP R/3 Enterprise system.

**Answer:** False

There are several other Support Package types.

34. To be able to perform conversion from non-Unicode to Unicode, you require non-Unicode and Unicode Kernel CD's for

**Answer:** C

To be able to perform conversion from non-Unicode to Unicode, you require a non-Unicode Kernel CD for the export and a Unicode Kernel CD for the import.

35. Flow Trace provides more detailed information about the installation progress and success.

**Answer:** True

# *Chapter 5*

## **SAP Web AS Java Administration**

This course provides an overview of the various tasks of SAP Java system administration, and a solid foundation for the training of SAP Java system administrators. The focus of this course is on the SAP Web Application Server Java.

You will be able to demonstrate your ability:

- Explain the architecture and the basic terms of the SAP Web AS Java
- Install and patch an SAP Web AS Java
- Administer and monitor an SAP Web AS Java
- Operate the tools to configure and administer the SAP Web AS Java
- Work with the fundamental concepts of software change management in the SAP Java environment
- Manage users of the SAP Web AS Java

1. Which of the programming languages listed below are implemented platform-independently?

*Choose the correct answer(s).*

- ☐ A Fortran
- ☐ B ABAP
- ☒ C Java
- ☐ D C/C++

2. Which of the software components listed below are components of SAP Web AS?

*Choose the correct answer(s).*

- ☐ A Java dispatcher
- ☒ B ABAP work processes
- ☒ C Message server
- ☒ D Internet Communication Manager

3. SAP Web AS can be installed with the option SAP Web AS without ABAP and Java System.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

4. Which software components allow load balancing in the context of SAP Web AS Java?

*Choose the correct answer(s).*

- ☒ A SAP Web Dispatcher
- ☐ B ABAP dispatcher
- ☒ C Java dispatcher
- ☐ D Server processes

5. When starting an SAP system in which only Java instances are installed, the database is started only after the Java instances have been started.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

6. It is not possible under UNIX operating systems to stop individual instances in the case of an SAP system with Java instances (without ABAP instances).

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

7. The most important trace and log files are stored in the work directory of each instance, that is, for example, under `/usr/sap/<SID>/DVEBMGS00/work`.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

8. Which installation scenarios exist for SAP Web Application Server (SAP Web AS)?

*Choose the correct answer(s).*

- ☒ A SAP Web AS ABAP
- ☐ B SAP Web AS Cobol
- ☐ C SAP Web AS C++
- ☒ D SAP Web AS Java
- ☒ E SAP Web AS ABAP+Java
- ☐ F SAP Web AS Java+C

9. What is the process flow during the installation of SAPWeb AS ABAP+Java?

*Choose the correct answer(s).*

- ☐ A 1. SAP Web AS Java central instance, 2. Database instance, 3. SAP Web AS ABAP central instance
- ☐ B 1. Database instance, 2. SAP Web AS ABAP central instance, 3. SAP Web AS Java central instance
- ☒ C 1. SAP Web AS ABAP central instance, 2. Database instance, 3. Completion of the central instance with SAP Web AS Java

10. What makes up SAP NetWeaver Developer Workplace?

*Choose the correct answer(s).*

- ☐ A SAP Web AS ABAP+Java and SAP NetWeaver Developer Studio
- ☐ B SAP Web AS ABAP and SAP NetWeaver Java Development Infrastructure
- ☒ C SAP Web AS Java and SAP NetWeaver Developer Studio
- ☐ D SAP NetWeaver Java Development Infrastructure and SAP NetWeaver Developer Studio.

11. You can maintain parameter settings of a SAP Web AS Java with the Visual Administrator when no SAP Web AS Java instance has been started.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

12. You can use the Config Tool to maintain Java VM parameters for a SAP Web AS Java instance.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

13. The parameters that are maintained with the Visual Administrator only become active after the SAP Web AS Java has been restarted.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

14. If you want to use the System Information tool, you need to install it on your front end.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

15. You can use the Config Tool to add additional server processes to an SAP Web AS Java instance.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

16. With which of the following data sources can the User Management Engine work?

*Choose the correct answer(s).*

- ☒ A Database
- ☐ B File system
- ☒ C ABAP user management
- ☒ D Directory service

17. Which tools are available for user administration under Java?

*Choose the correct answer(s).*

- ☒ A UME console
- ☐ B User administration in the computer management (Microsoft Windows)
- ☒ C Visual Administrator
- ☐ D Transaction USER01

18. You can lock users with the UME console.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

19. You can assign permissions directly to users in the UME console.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

20. The term J2EE security role is another name for a UME role.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

21. Which UME properties can you influence with parameters?

*Choose the correct answer(s).*

- ☒ A Number of failed logon attempts before a user is locked
- ☒ B E-mail notification if a user is locked by the administrator
- ☐ C Average length of the user name
- ☐ D Directory service data source: specification of the instance number of the directory service
- ☒ E SAP Web AS ABAP data source: Specification of the SID
- ☒ F Passwords are automatically generated

22. If the Java administration user is locked, there are no other users that can log on to the system and release the lock.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

23. The SAP Web AS Java can only be monitored locally and not in a central monitoring system.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

24. Which actions are possible using the Visual Administrator in the Monitoring service?

*Choose the correct answer(s).*

- ☒ A Changes to threshold values
- ☐ B Delete history values
- ☐ C Cross-system monitoring
- ☒ D Display monitoring data for Java instances

25. Which of the following steps do you need to perform when installing an agent?

*Choose the correct answer(s).*

- ☒ A Start the SAP NetWeaver CCMS Agent Setup Tool
- ☐ B Create the CSMADMIN user
- ☒ C Create the CSMCONF file
- ☐ D Set up an RFC connection to the central monitoring system before the installation

26. Trace information is only important for the administrator.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

27. Which service can you use to change the severity of log files?

*Choose the correct answer(s).*

- ☒ A Log Configurator service
- ☐ B Integrated Log Viewer
- ☐ C Standalone Log Viewer
- ☐ D Monitoring service



28. During the availability check with the GRMG, an XML document is sent by HTTP as the response to a request.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

29. Which of the following traces are part of SAP Web AS Java?

*Choose the correct answer(s).*

- ☐ A Developer trace
- ☒ B Single Activity Trace
- ☒ C Application trace
- ☐ D System trace
- ☒ E Performance trace
- ☒ F SQL trace

30. Which of these statements about the programming model of a J2EE application are correct?

*Choose the correct answer(s).*

- ☐ A Presentation logic and application logic are closely interlinked for J2EE applications.
- ☒ B Presentation logic and application logic are strictly separated for J2EE applications.
- ☒ C Java Server Pages (JSPs) and servlets are part of the presentation logic.
- ☐ D Java Server Pages (JSPs) and servlets are part of the application logic.

31. Which of the following services are part of the SAP NetWeaver Java Development Infrastructure (JDI)?

*Choose the correct answer(s).*

- ☒ A Design Time Repository (DTR)
- ☐ B Object Development Tool (ODT)
- ☒ C Component Build Service (CBS)
- ☒ D Name server
- ☐ E Central Make Tool (CMT)

32. Which statements about the architecture and configuration of the SAP NetWeaver Java Development Infrastructure are correct?

*Choose the correct answer(s).*

- ☐ A The System Landscape Directory (SLD), Design Time Repository (DTR), Component Build Service (CBS), Change Management Service (CMS), and Name Service must always be configured on the same SAP system.
- ☒ B SLD, CMS, CBS, and DTR can be installed on different SAP systems
- ☐ C If only the CMS is configured on an SAP system, you do not need to deploy the entire JDI on this host.
- ☒ D If only the CMS is configured on an SAP system, you still need to deploy the entire JDI on this host.

33. Which statements about tracks, systems, and development configurations are correct?

*Choose the correct answer(s).*

- ☐ A A track always contains exactly one development configuration.
- ☒ B A track contains multiple systems.
- ☒ C A system consists of a development configuration and a runtime environment.
- ☐ D A track is used for developing different software components in different releases.
- ☒ E A track is always used to develop only one release of a specific software component.

34. Which statements about the Design Time Repository (DTR) and the Central Build Service (CBS) are correct?

*Choose the correct answer(s).*

- ☒ A The DTR consists of an active and an inactive workspace.
- ☐ B Checking development components into the DTR means that they can be used by other developers.
- ☒ C Activating development components in the CBS means that they can be used by other developers.
- ☐ D If the central build fails, the elements of the active workspace are placed in the inactive workspace.

35. Which statements about transporting Java objects are correct?

*Choose the correct answer(s).*

- ☒ A When importing requests into the consolidation system, the activation of the objects is automatically started.
- ☐ B As in the ABAP environment, only individual development objects and, in general, not entire software components are imported into the production system.
- ☒ C During the assembly step, only links to required software components are created.
- ☐ D All required software components are included in the archive to be created during the assembly step.

36. Which of the following points apply to SDM offline deployment?

*Choose the correct answer(s).*

- ☐ A The SDM is stopped.
- ☐ B The deployment is performed with SAPinst.
- ☒ C SAP Web AS Java is stopped.
- ☒ D The Java application to be updated is stopped.

37. To restore the SAP Web AS Java if a system error occurs, it is sufficient to backup the directory `/usr/sap`.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

## Answers

1. Which of the programming languages listed below are implemented platform-independently?

**Answer:** B, C

ABAP and Java are programming languages that are implemented platform-independently.

2. Which of the software components listed below are components of SAP Web AS?

**Answer:** A, B, C, D

SAP Web AS components: Internet Communication Manager, ABAP dispatcher, ABAP work processes, message server, Java dispatcher, server processes, Software Deployment Manager, and Central Services.

3. SAP Web AS can be installed with the option SAP Web AS without ABAP and Java System.

**Answer:** False

Installation options for SAP Web AS: SAP Web AS ABAP System; SAP Web AS Java System; SAP Web AS ABAP and Java System.

4. Which software components allow load balancing in the context of SAP Web AS Java?

**Answer:** A, C

The SAP Web Dispatcher distributes inbound requests across multiple SAP Web AS Java instances. The Java dispatcher receives the requests within an instance and distributes these to the server processes of the instance.

5. When starting an SAP system in which only Java instances are installed, the database is started only after the Java instances have been started.

**Answer:** False

The database is always started first, or must be available before instances are started.

6. It is not possible under UNIX operating systems to stop individual instances in the case of an SAP system with Java instances (without ABAP instances).

**Answer:** False

You can stop individual instances using the command stopsap R3 <instance name> or stopsap J2EE <instance name>.

7. The most important trace and log files are stored in the work directory of each instance, that is, for example, under /usr/sap/<SID>/DVEBMGS00/work.

**Answer:** True

All developer traces and all important start files are stored in the work directory of each instance.

8. Which installation scenarios exist for SAP Web Application Server (SAP Web AS)?

**Answer:** A, D, E

The possible scenarios are SAP Web AS ABAP, SAP Web AS Java, SAP Web AS ABAP+Java. All of the others listed are purely imaginary names.

9. What is the process flow during the installation of SAPWeb AS ABAP+Java?

**Answer:** C

Only answer C is correct.

10. What makes up SAP NetWeaver Developer Workplace?

**Answer:** C

SAP NetWeaver Java Development Infrastructure (JDI) supports central, team-based Java developments in the SAP NetWeaver environment, but is not part of SAP NetWeaver Developer Workplace.

11. You can maintain parameter settings of a SAP Web AS Java with the Visual Administrator when no SAP Web AS Java instance has been started.

**Answer:** False

With the Visual Administrator, you must log on to a Java instance. You can only maintain parameters of started instances.

12. You can use the Config Tool to maintain Java VM parameters for a SAP Web AS Java instance.

**Answer:** True

You can maintain parameters such as -Xms with the Config Tool. -Xms is a Java VM parameter.

13. The parameters that are maintained with the Visual Administrator only become active after the SAP Web AS Java has been restarted.

**Answer:** False

Most of the parameters changed with the Visual Administrator become active immediately.

14. If you want to use the System Information tool, you need to install it on your front end.

**Answer:** False

System Information is a Java application that runs in a browser.

15. You can use the Config Tool to add additional server processes to an SAP Web AS Java instance.

**Answer:** True

You can use the Config Tool to add additional server processes to an SAP Web AS Java instance.

16. With which of the following data sources can the User Management Engine work?

**Answer:** A, C, D

Database, ABAP user management, and directory service are the three types of data source available for the UME.

17. Which tools are available for user administration under Java?

**Answer:** A, C

The UME console, SU01, and the Visual Administrator are the tools for user and authorization administration under Java.

18. You can lock users with the UME console.

**Answer:** True

The UME console allows you to administer users.

19. You can assign permissions directly to users in the UME console.

**Answer:** False

Permissions are combined into actions, and the administrator then combines these into roles. Roles can be assigned to a user.

20. The term J2EE security role is another name for a UME role.

**Answer:** False

A J2EE security role is part of the J2EE standard and is used for a declarative authorization check. A UME role is an (SAP) extension to the J2EE standard and is used for a programmable authorization check.

21. Which UME properties can you influence with parameters?

**Answer:** A, B, E, F

You can use parameters to influence the number of failed logon attempts before a user is locked, e-mail notification if a user is locked by the administrator, SAP Web AS ABAP data source: Specification of the SID and how passwords are automatically generated. These parameters correspond to answers A, B, E, and F.

22. If the Java administration user is locked, there are no other users that can log on to the system and release the lock.

**Answer:** False

You can activate the emergency user SAP\* and unlock the locked administrator.

23. The SAP Web AS Java can only be monitored locally and not in a central monitoring system.

**Answer:** False

The SAP Web AS Java can be monitored both locally and in a central monitoring system.

24. Which actions are possible using the Visual Administrator in the Monitoring service?

**Answer:** A, D

The tasks of the Monitoring service are to create a history, change threshold values, and display collected monitoring data.

25. Which of the following steps do you need to perform when installing an agent?

**Answer:** A, C

You need to create the CSMREG user and the CSMCONF file, and then start the SAP NetWeaver CCMS Agent Setup Tool.

26. Trace information is only important for the administrator.

**Answer:** False

Trace information is often used to identify problems during development, and provides developers with detailed information about an error that has occurred.

27. Which service can you use to change the severity of log files?

**Answer:** A

You can change the severity for log controllers and log destinations in the Log Configurator service.

28. During the availability check with the GRMG, an XML document is sent by HTTP as the response to a request.

**Answer:** True

The response to a GRMG request is sent in a special XML format.



29. Which of the following traces are part of SAP Web AS Java?

**Answer:** B, C, E, F

The SQL trace, session trace, application trace, performance trace, and Single Activity Trace are provided by SAP Web AS Java.

30. Which of these statements about the programming model of a J2EE application are correct?

**Answer:** B, C

For J2EE applications – unlike classical ABAP applications – presentation logic and application logic are strictly separated. JSPs and servlets are part of the presentation logic, the application logic is represented by Enterprise Beans.

31. Which of the following services are part of the SAP NetWeaver Java Development Infrastructure (JDI)?

**Answer:** A, C, D

Among other things, the SAP NetWeaver Java Development Infrastructure (JDI) includes the Design Time Repository for versioning source code management, the Component Build Service for the central build based on the component model, and the name service as the central check instance for the uniqueness of names. Central Make Tool and Object Development Tool are imaginary names, J2EE applications are developed using the SAP NetWeaver Developer Studio, based on Eclipse.

32. Which statements about the architecture and configuration of the SAP NetWeaver Java Development Infrastructure are correct?

**Answer:** B, D

The various elements of the JDI can be distributed across different SAP Web AS. However, the full JDI must be deployed on hosts on which the elements CMS, DTR, or CBS are to be configured.

33. Which statements about tracks, systems, and development configurations are correct?

**Answer:** B, C, E

A separate track must be defined in the JDI for each release of a software component. A track typically consists of four systems (central development system, consolidation system, test system, and production system), and a system is defined by a runtime environment and, if appropriate, a development configuration.

34. Which statements about the Design Time Repository (DTR) and the Central Build Service (CBS) are correct?

**Answer:** A, C

The central build in the Component Build Service (CBS) builds the archives of the development components (DCs), which become usable for other developers through activation. During the central build, unchanged files are fetched from the active workspace, and changed files from the inactive workspace. After a successful build, the archive files are automatically available in the active workspace.

35. Which statements about transporting Java objects are correct?

**Answer:** A, C

Unlike a central development system, where the activation must be explicitly started by the developer, the activation is automatically started during the import into the consolidation system. In contrast to the ABAP environment, however, not only delta information (that is, individual development objects), but rather always entire software components are delivered in an archive file (SCA file) and imported. During the assembly step, only links to required (referenced) software components are generated. These software components themselves are not included in the archive. If, however, the required software components are not available in a successor system, an error message appears when you attempt to import.

36. Which of the following points apply to SDM offline deployment?

**Answer:** C, D

The SDM is not stopped, since the deployment is performed with the SDM. You need to stop the SAP Web AS Java, and therefore, the Java application is, of course, also stopped, since it runs on the SAP Web AS Java.

37. To restore the SAP Web AS Java if a system error occurs, it is sufficient to backup the directory */usr/sap*.

**Answer:** False

In addition to the proprietary SAP directories, you must also back up the database and the SDM directory.

# *Chapter 6*

## **SAP Software Logistics**

The questions in this Unit will prepare you in understanding the responsibility of the transport administrator. Important functions and tools for managing the entire process of transporting objects throughout your landscape will be discussed in detail.

You will be able to demonstrate your ability:

- Describe the concepts and tools of the Change and Transport System (CTS)
- List and describe the types of changes and their effects on SAP systems
- List and describe the tasks of a transport administrator
- Set up and maintain SAP system landscapes
- Manage and support customizing projects

1. Data in one SAP client is stored in separate tables from data in another client.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

2. Changes to ABAP programs only affect users in the client where the changes were made.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

3. Transporting changes is the process of moving configuration changes from one application instance of SAP to another.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

4. The area of the CTS that schedules and monitors the importing of change requests is

*Choose the correct answer(s).*

- ☐ A Workbench Organizer
- ☐ B Customizing Organizer
- ☐ C Transport Organizer
- ☒ D TMS
- ☐ E CTO

5. All systems in the landscape need to be installed before configuring TMS.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

6. If a change request that was transported to the quality assurance system contains errors, then you must transport the change request back to development and correct the error.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

7. Which of the following statements is correct in regard to the transport directory?

*Choose the correct answer(s).*

- ☐ A There can only be one transport directory per landscape.
- ☐ B The transport directory must reside on the production server.
- ☒ C The transport directory contains data, command, and log files associated with change requests.
- ☐ D Every system in the landscape should have a private transport directory.

8. There can be two different domain controllers defined for one system landscape.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

9. The transport routes for your system landscape can be configured to import into multiple clients.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

10. Select the correct statements pertaining to TMS configuration.

*Choose the correct answer(s).*

- ☒ A Several transport groups can be in a transport domain.
- ☒ B All SAP system sharing to the same usr/sap/trans directory will be included in the same transport group.
- ☐ C Only one transport layer can be defined in the system at any given time.
- ☒ D The transport layer defines the migration path of the target system.

11. From the list below, select the transport strategies that are available in the system.

*Choose the correct answer(s).*

- ☒ A Import queues (Mass Imports, Single Imports)
- ☐ B Transport by task
- ☒ C Import by Project
- ☒ D Transport Workflow

12. Which of the following best describes SAP customizing?

*Choose the correct answer(s).*

- ☐ A Writing new ABAP programs to satisfy business requirements
- ☐ B Entering master data
- ☒ C Configuring the business process chains needed to satisfy business requirements
- ☐ D Installing the hardware required by the users
- ☐ E Painting pinstripes on your terminal

13. Which of the following does not describe customizing?

*Choose the correct answer(s).*

- ☐ A Cross-client configuration settings
- ☐ B Client-specific configuration settings
- ☐ C Transactions that maintain customizing tables
- ☒ D System parameters configured by the Basis administrator
- ☐ E Transactions found in the IMG

14. All projects in the Project Management system are automatically available for use in the TMS.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

15. All change requests can be associated with a project.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

16. In order to minimize the impact of transporting changes from development to production, you must define procedures that require testing and approval before a transport is released.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

17. Before releasing a change request, the following tasks should be completed.

*Choose the correct answer(s).*

- ☒ A All tasks must have previously been released
- ☒ B All tasks must have previously been tested
- ☐ C SE09 needs to be installed
- ☒ D TMS has to be configured

18. You can combine several change requests into one change request.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False



19. Which of the following activities can be performed using the Transport Organizer?

*Choose the correct answer(s).*

- ☒ A Creation of change request, add task to change request, and change the owner of change request
- ☒ B Display objects of the change request
- ☐ C Import of change request into the target system
- ☐ D Display and modify objects in a released change request

20. Which of the following type of changes are transported using Workbench change request?

*Choose the correct answer(s).*

- ☒ A Client – independent changes
- ☒ B Modification to SAP standard delivered objects
- ☒ C Changes using the ABAP editor and ABAP dictionary
- ☒ D Repairs to SAP repository objects that originated in another SAP system

21. All tasks of the change request must be released before the change request can be released.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

22. A change request must contain at least one task for each developer that is assigned to the request.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

23. Which of the statements are true in regards to packages?

*Choose the correct answer(s).*

- ☒ A Packages are an extended concept of development classes.
- ☐ B Packages cannot contain sub-packages.
- ☐ C A local object does not need to be assigned to a package.
- ☒ D Packages facilitate project management by grouping similar repository objects.

24. For a repository object to be modifiable, the system change options global setting, software component of the object, and the namespace

or name range all need to be set to modifiable.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

25. The V\_TRESN view contains all packages in SAP R/3, including SAP packages.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

26. The transport layer assigned to a package enables the same predefined transport route to be used for all objects in the package.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

27. Which of the following statements are correct regarding repairs and modifications?

*Choose the correct answer(s).*

- ☐ A Repairs are changes to SAP-delivered objects; modifications are changes to any object that originated on an SAP system other than the current SAP system.
- ☒ B A repair flag protects an SAP repository object against being overwritten by an import.
- ☒ C All repairs are saved in Workbench change request.
- ☒ D A modification is a change to an SAP-delivered object.

28. The Object directory is a catalog of all SAP repository objects in SAP R/3 excluding the SAP standard objects that are delivered with the SAP system.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

29. The Modification assistant is a tool that offers you support when making changes to the SAP standard delivered objects. The Modification assistant can be used to simplify the upgrade process.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

30. A developer must supply a developer's key for every new object created in the SAP repository.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

31. Releasing the change request automatically initiates the export process.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

32. The changes recorded in the change request are extracted from the database and moved to the transport directory at the operating system level.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

33. When the export process is complete, the import process is automatically started and the change requests are immediately imported into the target system.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

34. During the export process, change requests are added to the buffer of the target system but are not automatically imported into the target system.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

35. Which of the following are correct in regard to import queue?

*Choose the correct answer(s).*

- ☒ A Import queue is the TMS representation of the import buffer on the operation system level.
- ☐ B You have to manipulate the import queues in order to transport change request.
- ☒ C Import queues should be closed before starting an import using TMS.
- ☐ D You can only import the entire queue.

36. Which of the following statements are correct in regard to preliminary imports?

*Choose the correct answer(s).*

- ☐ A SAP recommends using preliminary imports rather than imports of the entire queue.
- ☒ B Preliminary imports should only be performed in exceptional cases.
- ☒ C Change request imported as preliminary imports remain in the queue and are imported again when an import of the entire queue is performed.
- ☐ D Change request are deleted from the import queue after a preliminary import is performed.

37. Which of the following statements is correct in regard to imports into an SAP R/3 system?

*Choose the correct answer(s).*

- ☐ A Imports can only be performed using the start import function in TMS.
- ☐ B Imports can be performed only by using tp commands on the operating system level to prepare the import queue and then use the start import function in TMS.
- ☐ C Imports can be performed only by using the tp commands at the operating system level.
- ☒ D Imports can be performed by using either the tp commands on the operating system level or by using the TMS function.

38. Which of the following activities cannot be performed using transaction TMS?

*Choose the correct answer(s).*

- ☐ A Displaying the import queue.
- ☐ B Displaying the logs generated by both the export process and the import process.
- ☐ C Starting the import process.
- ☒ D Releasing change request.

39. Which of the following statements are correct in regard to change request in the import queue?

*Choose the correct answer(s).*

- ☐ A The requests can be arranged in the queue in what ever order you choose.
- ☐ B Requests are placed in the queue according to their change request number.
- ☒ C The requests are sequenced in the queue in the order in which they were exported from the development system.
- ☐ D Requests are sequenced in the queue according to the name of the user who released the requests

40. The QA approval procedure functions to ensure that only tested and approved change request are imported into the production system.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

41. When using the QA approval to import a project into the production system, all change requests that belong to the project have to be approved.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

42. The transport workflow sets up communication between the developer and the transport administrator.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

43. Transport workflow does not require any manual interaction from the developer or the transport administrator. Requests are directly imported automatically into the target system.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

44. The transport proposal can contain any of the request types as long as the request has already been released.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

45. You can configure more than one system in the domain as the workflow engine.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

46. The Import Monitor displays the information for each tp command, regardless of whether it is imported as a single change request or the entire queue.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

47. The tp system log displays an overview of the transport activities for the current SAP system. For example, all tp calls and errors, as well as the return codes, indicate the success of each import.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

48. Each transport group has its own action log.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

49. For each transport activity, the system writes a log file called the ALOG.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

50. The timing of transports is based on

*Choose the correct answer(s).*

- ☒ A The role of the client
- ☒ B Testing and verification
- ☒ C Code Freeze requirements
- ☒ D Synchronization needs
- ☒ E All of the above

51. Change management includes creating, releasing, distributing, and verifying change requests for all SAP R/3 systems in the system landscape.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False



52. SAP recommends transporting each single object as soon as it is ready, rather than transporting a whole change project when all objects are in an acceptable state.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

53. The control table TRBAT specifies the steps to be performed for the respective request.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

54. The log files generated during the generic import steps can be viewed through TMS.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

55. The transport control program tp is a tool on the operating system level that uses other C programs, operating system commands, and ABAP programs in SAP to control transports between SAP systems.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

56. Collection methods are programmed directly into the monitoring architecture and cannot be modified.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

57. A monitoring attribute represents one type of information that is to be reported on a monitoring object.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

58. The monitoring architecture offers an interface so that external data consumers (external programs) can receive the monitoring architecture's information.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

59. The TMS communication interface is used to send alerts to the CCMS in the domain controller system.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

60. When you change the TMS configuration, which tool should you always execute?

*Choose the correct answer(s).*

- ☐ A ABAP code check
- ☐ B RDDIMPDP
- ☒ C TMS Consistency Check
- ☐ D RZ10 profile Consistency Check

61. All import and export errors are recorded as alerts in the TMS Alert Monitor and the tp system log.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

62. If the RDDIMPDP job fails to run, you can still successfully transport change requests.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

63. Select the following tp program commands that are used for cleaning up the transport directory.

*Choose the correct answer(s).*

- ☐ A tp import all
- ☒ B tp check all
- ☒ C tp clearold all
- ☐ D tp delete all

64. A piece list can be released and transported.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

65. Delivery transports are requests that have been released and ready to go into a production system.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

66. Regular requests cannot be released from SE01. Request can only be released from the SE09 or SE10.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

67. Because the logical system is an optional field and not used very often, it should always be left blank when creating a new client.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

68. Which of the following best describes application data?

*Choose the correct answer(s).*

- ☐ A Master data
- ☐ B Customizing and transaction data
- ☐ C Customizing, transaction, and master data
- ☐ D Customizing and master data
- ☒ E Master and transaction data
- ☐ F Transactiondata

69. Which of the following is NOT a profile that can be used for client copies?

*Choose the correct answer(s).*

- ☐ A SAP\_USER – user master records
- ☐ B SAP\_CUST – customizing data
- ☒ C SAP\_MAST – master data
- ☐ D SAP\_ALL – all client specific data

70. Client copies do not use many system resources.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

71. The Cross-System Viewer should be used instead of change requests.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

72. What is the transaction code for the Cross-System Viewer?

*Choose the correct answer(s).*

- ☐ A SCU1
- ☒ B SCU0
- ☐ C SEU0
- ☐ D SEU1

73. Which of the following best describes client maintenance settings?

*Choose the correct answer(s).*

- ☐ A Used to determine where change requests are created
- ☒ B Used to prevent a client from being overwritten by the client copy or compare/adjustment
- ☐ C Used to manage ABAP changes
- ☐ D Used to verify a client copy

74. There are many different standard SAP R/3 release types.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

75. Conflict resolution transports (CRTs) supply adapted objects to resolve conflicts between SAP R/3 and SAP add-ons.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

76. OCS patches are recognized as modifications during upgrade and are overwritten. This is no problem, because each new SAP R/3 release contains all previous OCS corrections.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

77. What two transactions are used to apply fixes to SAP systems?

*Choose the correct answer(s).*

- ☒ **A SNOTE**
- ☐ B OCS
- ☒ **C SPAM**
- ☐ D SICK

78. You only have to use transaction SNOTE to keep your SAP system up to date.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ **False**

79. You can get support packages from the following places.

*Choose the correct answer(s).*

- ☒ **A SAP Service Marketplace**
- ☒ **B SAPNet.R/3Frontend**
- ☐ C Online Documentation CD
- ☐ D HELP.SAP.COM
- ☒ **E Collection CDs**

80. The Note Assistant is a tool used to implement SAP Notes and has been available since SAP R/3 Release 4.5.

*Determine whether this statement is true or false.*

- ☒ **True**
- ☐ False

81. If you have already implemented SAP Notes in your system but did not use the Note Assistant, you must perform the following task:

*Choose the correct answer(s).*

- ☐ A Download the latest version of Note Assistant
- ☒ **B Execute report SCWN\_REGISTER\_NOTES**
- ☐ C Download the latest version of SPAM
- ☐ D Upgrade the SAP Kernel

82. From what two locations can you install SAP Notes?

*Choose the correct answer(s).*

- ☐ A From the help.sap.com Web site
- ☒ B SAP Service Marketplace
- ☒ C SAPNet.R/3 Frontend
- ☐ D Via an SAP e-mail message

83. What are some of the common errors encountered when installing support packages with SPAM?

*Choose the correct answer(s).*

- ☒ A TMS is not working
- ☒ B Running out of disk space
- ☒ C Not using the latest SPAM/SAINT update
- ☒ D Incompletely imported support packages in the system
- ☐ E ALE not set up correctly

84. What is the very first step that you should perform before installing an industry solution or R/3 Plug-in with SAINT?

*Choose the correct answer(s).*

- ☐ A Download the latest version of the R/3 Plug-in
- ☒ B Download the latest version of SAINT if there is a more recent one than the one you have installed
- ☐ C Download the latest Basis support package
- ☐ D Upgrade the database

85. You must use the modification adjustment with SAINT.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

86. Which transaction do you use to install an industry solution?

*Choose the correct answer(s).*

- ☐ A SPDD
- ☐ B STMS
- ☐ C SPAM
- ☒ D SAINT

87. Select the choices that would require an R/3 Plug-in to be installed.

*Choose the correct answer(s).*

- ☒ A Connecting an ASAP R/3 system to transfer data to an APO system
- ☐ B Connecting an SAPR/3 system to SAP Service Marketplace
- ☒ C Connecting an SAPR/3 system to transfer data to an SAP BW system
- ☐ D Connecting SAINT to also work on the same system with SPAM

88. Which of the following are examples of industry solutions?

*Choose the correct answer(s).*

- ☐ A Modifications that are made to transaction SAINT
- ☒ B mySAP Automotive
- ☒ C mySAP Oil & Gas
- ☐ D SAPBW

89. When do you use modification adjustment with SAINT?

*Choose the correct answer(s).*

- ☐ A To help you install the new version of SPAM
- ☒ B If you have made modifications to the SAP objects in an add-on
- ☐ C When you are running low of disk space in the transport directory
- ☐ D If you have not installed the latest version of SAINT



90. What are the two different methods used for installing languages?

*Choose the correct answer(s).*

- ☒ A With Transaction SMLT
- ☐ B During a Client Copy
- ☐ C With Transaction SAINT
- ☒ D During an SAP Upgrade

91. What are the two different methods used for installing Language Transports?

*Choose the correct answer(s).*

- ☒ A During and SAP Upgrade
- ☐ B With transaction SPAM
- ☐ C With transaction SMLT
- ☐ D Using transaction SPAD
- ☐ E During a Client Copy

92. Choose the two languages that are installed automatically with a SAP installation.

*Choose the correct answer(s).*

- ☐ A Mandarin
- ☒ B English
- ☒ C German
- ☐ D Spanish

93. Do you have to classify a language that is imported?

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

94. If a Language Import fails when you are importing it with SMLT, how should you restart the import?

*Choose the correct answer(s).*

- ☐ A Delete all files out of the /usr/sap/trans directory, and restart with SPAM
- ☐ B Download the latest version of transaction SAINT
- ☒ C Review the log files, correct the problem, and restart with **SMLT restart icon**
- ☐ D Open a SAP Note problem ticket

95. In a one-system landscape, an ABAP program that drops ten tables in the database will not affect the production client.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

96. Testing transports on your production box is absolutely safe. SAP transports always work and never need to be tested.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

97. How many systems does SAP recommend for a development project?

*Choose the correct answer(s).*

- ☐ A Three physical hosts sharing one database
- ☒ B Three systems
- ☐ C a few desktops
- ☐ D one physical host with two databases

98. Some of the advantages to a three-systems landscape are:

*Choose the correct answer(s).*

- ☒ A Upgrades can be simulated.
- ☒ B New development will not affect production.
- ☒ C The consolidation environment allows you to integrate all development.
- ☐ D Being in charge of all that equipment is fun.

99. In a multi-phased environment, it is impossible to have different releases of SAP R/3 within the landscape.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

100. In a global implementation, it is possible to deliver for a delivery environment.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

101. The graphical editor tool within the Transport Management System (TMS) is recommended for setting up an SAP R/3 system landscape.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

102. The graphical editor tool makes adding transport routes more difficult.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

103. BC sets can be reused by the project team.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

104. The "simple" BC set is the most common type of BC set used.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

105. Business Configuration Set will replace transport requests.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

**ANSWERS**

1. Data in one SAP client is stored in separate tables from data in another client.

**Answer:** False

Client-specific data is stored in common tables but is logically separated by the SAP kernel using the three digit client number contained in the primary key of every client-dependent table.

2. Changes to ABAP programs only affect users in the client where the changes were made.

**Answer:** False

All ABAP programs are part of the SAP Repository, which is client-independent. ABAP programs are shared by users in all clients.

3. Transporting changes is the process of moving configuration changes from one application instance of SAP to another.

**Answer:** False

The SAP instance is the application layer where programs get executed. The programs are stored in and read from the database tables. Transporting is the process of moving configuration changes from one system (SID) of SAP to another. Remember, when dealing with transports, you are always moving objects from one database to another or from one client to another within the same database.

4. The area of the CTS that schedules and monitors the importing of change requests is

**Answer:** D

TMS is accessed by the transaction STMS and is used for the configuration, management, scheduling, and monitoring of the of the import process.

5. All systems in the landscape need to be installed before configuring TMS.

**Answer:** False

All systems do not need to be installed. Typically, the development system is installed shortly before the quality assurance and well before the production system. You should have the plans for what the configuration is going to look like when all systems are installed. The TMS can be configured around these plans using virtual systems.

6. If a change request that was transported to the quality assurance system contains errors, then you must transport the change request back to development and correct the error.

**Answer:** False

The transport routes, which define the movement of change requests through the landscape, are in one direction only! In order to maintain consistent SAP repositories, the correct procedure for correcting transports that contain errors is to create a new change request in the source system that contains the correction to the errors and transport that new change request to QAS to correct the error.

7. Which of the following statements is correct in regard to the transport directory?

**Answer:** C

From a maintenance standpoint, the simplest and most common configuration is to have one common transport directory per landscape. It is possible and even necessary to have multiple transport directories in certain cases, usually related to security or hardware considerations. Most installations have the transport directory on the development system simply because it is the first system installed.

8. There can be two different domain controllers defined for one system landscape.

**Answer:** False

For one system landscape, there can only be a primary domain controller and a backup domain controller.

9. The transport routes for your system landscape can be configured to import into multiple clients.

**Answer:** True

Using the Extended Transport, Control can be set in the system to allow import into multiple clients at the same time.

10. Select the correct statements pertaining to TMS configuration.

**Answer:** A, B, D

The configuration of TMS creates several transport groups if the systems in the domain do not share the same usr/sap/trans directory. The transport route identifies the target system of the exported objects.

11 From the list below, select the transport strategies that are available in the system.

**Answer:** A, C, D

The import of change request in to the target system can be controlled by choosing a transport strategy that fulfils the requirements for your implementation. Available strategies are Import by import queues, by project, and by workflow.

12. Which of the following best describes SAP customizing?

**Answer:** C

The process of configuring the SAP standard programs to meet your business needs is known as customizing.

13. Which of the following does not describe customizing?

**Answer: D**

While most of customizing consists of making configuration entries into client-specific tables, there is a small portion of customizing that is cross-client. Customizing transactions are found in the IMG. Basis system configurations are not considered customizing because they do not affect the business process chains.



14. All projects in the Project Management system are automatically available for use in the TMS.

**Answer:** False

By default, projects are not connected to the TMS. This connection is made by selecting the *Activate CTS Functionality* button.

15. All change requests can be associated with a project.

**Answer:** False

The assignment of a change request to a project must be made before the change request is released. After a change request is released, no changes can be made to the change requests properties.

16. In order to minimize the impact of transporting changes from development to production, you must define procedures that require testing and approval before a transport is released.

**Answer:** True

Customizing changes require testing and approval before being promoted to production. Procedures need to be defined and followed.

17. Before releasing a change request, the following tasks should be completed.

**Answer:** A, B, D

You cannot release a change request until all of the tasks in that change request have been released. You do not have to test a task to release a change request, but you should always test all tasks that can be tested before releasing.

18. You can combine several change requests into one change request.

**Answer:** True

Combining multiple change requests into a single change request to create a testable unit is useful only if the change requests for a particular project are ready to be transported at the same time. This is usually the case when the change requests are related and need to be tested together.

19. Which of the following activities can be performed using the Transport Organizer?

**Answer:** A, B

The Transport organizer manages changes in the SAP system. Once these changes have been exported out of the development system, they can be displayed but not modified using the current change request. The Transport Organizer is not used to import request, imports require the use of TMS.

20. Which of the following type of changes are transported using Workbench change request?

**Answer:** A, B, C, D

All of the above are modifications to repository objects and are transported using Workbench change request.

21. All tasks of the change request must be released before the change request can be released.

**Answer:** False

If the change request contain tasks that are empty, then the change request can be released and the empty tasks are automatically deleted. If a task of the change request contains an object, the task must be released before the request can be released.

22. A change request must contain at least one task for each developer that is assigned to the request.

**Answer:** True

Every developer has their own area within a change request to save their work. This helps the project team leader to better manage the work being performed by the developers that are assigned to the change request and controls access to objects of the change request.

23. Which of the statements are true in regards to packages?

**Answer:** A, D

The concept of development classes have been extended to provide additional options for managing development projects. Every object in the SAP repository must be assigned to a package. A package determines whether the object is transportable or not and determines the transport route of the object.

24. For a repository object to be modifiable, the system change options global setting, software component of the object, and the namespace or name range all need to be set to modifiable.

**Answer:** True

The system change option control whether the repository objects and cross-client customizing are modifiable or not. Setting all of the above options allow you to make more precise settings.

25. The V\_TRESN view contains all packages in SAP R/3, including SAP packages.

**Answer:** False

Packages are stored in the V\_TDEVC view.

26. The transport layer assigned to a package enables the same predefined transport route to be used for all objects in the package.

**Answer:** True

The transport layer of the package dictates the migration path for the objects that are assigned to the package.

27. Which of the following statements are correct regarding repairs and modifications?

**Answer:** B, C, D

Modifications are changes to objects that are delivered during the installation of the SAP system. A repair is a change to a object created by the customer that is being changed in a system other than the objects original system.

28. The Object directory is a catalog of all SAP repository objects in SAP R/3 excluding the SAP standard objects that are delivered with the SAP system.

**Answer:** False

The Object directory contains an entry for all objects of the SAP repository.

29. The Modification assistant is a tool that offers you support when making changes to the SAP standard delivered objects. The Modification assistant can be used to simplify the upgrade process.

**Answer:** True

Modification assistant supports the adjustment of SAP standard objects by logging the changes being made. The logged changes can be used when performing an upgrade or applying a Support Pack to help simplify the process.

30. A developer must supply a developers key for every new object created in the SAP repository.

**Answer:** False

There must be a developer keys enter into the system for every developer creating new objects in the SAP repository. This key is only entered once and is automatically referenced by the system.

31. Releasing the change request automatically initiates the export process.

**Answer:** True

The release of a change request causes the tools that are needed to perform an export to be automatically executed on the operating system level.

32. The changes recorded in the change request are extracted from the database and moved to the transport directory at the operating system level.

**Answer:** False

When an export is started, only a copy of the objects containing the change request are placed in the transport directory at the operating system level. The original object stays in the database of the development system.

33. When the export process is complete, the import process is automatically started and the change requests are immediately imported into the target system.

**Answer:** False

The export and import steps are totally independent of one another. Imports can be scheduled for a specific time.

34. During the export process, change requests are added to the buffer of the target system but are not automatically imported into the target system.

**Answer:** True

Part of the export process is to prepare the import buffer of the target system by adding the exported change request to the buffer of the target system so they can be scheduled for import at a specified time.

35. Which of the following are correct in regard to import queue?

**Answer:** A, C

TMS supports various options for importing a change request; choose the option that best meets your requirements. You should close the queue before starting an import to avoid importing a change request before their time. It is very important to import objects in the order in which they were exported to avoid any problems with object dependencies.

36. Which of the following statements are correct in regard to preliminary imports?

**Answer:** B, C

SAP recommends import in the order of export to avoid any object dependency problems. Only perform preliminary imports in exceptional cases such as a request that needs to be importing to fix a problem in the QA system.

37. Which of the following statements is correct in regard to imports into an SAP R/3 system?

**Answer:** D

Various options are supported for performing an import into the SAP R/3 system. SAP recommends using the function provided by TMS. TMS gives you options that are not available on the operation system level.

38. Which of the following activities cannot be performed using transaction TMS?

**Answer:** D

TMS does not provide a function for exporting change requests; this function is provided by the Transport organizer.

39. Which of the following statements are correct in regard to change request in the import queue?

**Answer:** C

The order that the request is placed in the queue is automatically managed by the export process. The order in which the requests were exported is the order in which they will appear in the import queue. SAP recommends not manipulating the import queue.

40. The QA approval procedure functions to ensure that only tested and approved change request are imported into the production system.

**Answer:** True

TMS Quality Assurance increases the quality and availability of the Production system by making sure the request sign-off is performed by the appropriate responsible persons.

41. When using the QA approval to import a project into the production system, all change requests that belong to the project have to be approved.

**Answer:** True

To ensure that the project will only be imported as a unit of work, TMS will not allow the import of any request that is associated with the project to be imported. This helps to provide consistency in the production system.

42. The transport workflow sets up communication between the developer and the transport administrator.

**Answer:** True

The transport workflow uses the generic workflow and establishes communications between development and administration.

43. Transport workflow does not require any manual interaction from the developer or the transport administrator. Requests are directly imported automatically into the target system.

**Answer:** False

All requests contained in the transport proposal have to first be approved by the transport administrator before they are imported into the target system. After they are approved, the request is automatically imported.

44. The transport proposal can contain any of the request types as long as the request has already been released.

**Answer:** True

Transport proposal can only contain a released request.

45. You can configure more than one system in the domain as the workflow engine.

**Answer:** False

You can only have one of the systems in the domain configured as the workflow engine. The existing configuration has to be deleted first before setting up any other system as the workflow engine.

46. The Import Monitor displays the information for each tp command, regardless of whether it is imported as a single change request or the entire queue.

**Answer:** True

This is true, regardless of whether you imported a single change request or the entire queue, the following information can display in the monitor: tp command, start mode, start time, tp process ID, last change date and time, tp status maximum return code, and tp message.

47. The tp system log displays an overview of the transport activities for the current SAP system. For example, all tp calls and errors, as well as the return codes, indicate the success of each import.

**Answer:** True

True, the log information is stored in a file on the operating system level in the subdirectory log of the transport directory. This file is also known as the SLOG.

48. Each transport group has its own action log.

**Answer:** True

For each transport group, a action log is created that contains the transport activities and the return codes for all transport activities for the transport group.



49. For each transport activity, the system writes a log file called the ALOG.

**Answer:** False

For each transport activity, the system writes a log file called the single-step log file. To open the single-step log files, on the action log file screen, position the cursor on a change request and choose *Requests* → *Logs*. Select a specific import activity to review the related step file.

50. The timing of transports is based on

**Answer:** A, B, C, D, E

Defining a set times for transporting change requests helps to ensure a stable environment for testing as well as ensuring that only verified objects are transported to the production system.

51. Change management includes creating, releasing, distributing, and verifying change requests for all SAP R/3 systems in the system landscape.

**Answer:** True

The change management process involves implementing changes in the system, releasing, transporting, and verifying changes.

52. SAP recommends transporting each single object as soon as it is ready, rather than transporting a whole change project when all objects are in an acceptable state.

**Answer:** False

SAP recommends always transporting a workable, testable unit.

53. The control table TRBAT specifies the steps to be performed for the respective request.

**Answer:** True

The control table TRBAT helps to control the import process.

54. The log files generated during the generic import steps can be viewed through TMS.

**Answer:** False

The generic import steps are not viewable in TMS.

55. The transport control program tp is a tool on the operating system level that uses other C programs, operating system commands, and ABAP programs in SAP to control transports between SAP systems.

**Answer:** True

The tp controls the process of import and exports in your SAP systems.

56. Collection methods are programmed directly into the monitoring architecture and cannot be modified.

**Answer:** False

Collection methods are independent of the monitoring architecture, and so they can be easily added or modified.

57. A monitoring attribute represents one type of information that is to be reported on a monitoring object.

**Answer:** True

A monitoring attribute, for example CPU utilization, represents an attribute of the monitoring object CPU. The information supplied by the collector is reported back to that one object.

58. The monitoring architecture offers an interface so that external data consumers (external programs) can receive the monitoring architecture's information.

**Answer:** True

SAP provides an open interface into external monitoring systems.

59. The TMS communication interface is used to send alerts to the CCMS in the domain controller system.

**Answer:** True

The communication interface provides the functionality to be able to monitor TMS alerts in multiple systems.

60. When you change the TMS configuration, which tool should you always execute?

**Answer:** C

Anytime you change the TMS configuration you should always run the TMS consistency check. You can execute this from *STMS* → *Overview* → *Systems* → *SAP Systems* → *Check*.

61. All import and export errors are recorded as alerts in the TMS Alert Monitor and the tp system log.

**Answer:** True

The TMS Alert Monitor and the tp system log are useful troubleshooting tools because all import and export errors are recorded as alerts.

62. If the RDDIMPDP job fails to run, you can still successfully transport change requests.

**Answer:** False

It is imperative that the import dispatcher job RDDIMPDP is scheduled and executing successfully for the transport system to be working.

63. Select the following tp program commands that are used for cleaning up the transport directory.

**Answer:** B, C

To generate a list of all deletable files in the transport directories, enter the command **tp check all**. The **tp clearold all** command works against the list generated by the previous command. There are also transport profile parameters that you can set to determine which files are deleted.

64. A piece list can be released and transported.

**Answer:** False

Remember, you cannot release them. This also means that you cannot transport them.

65. Delivery transports are requests that have been released and ready to go into a production system.

**Answer:** False

Delivery transport delivers software changes from SAP or SAP partners to customers.

66. Regular requests cannot be released from SE01. Request can only be released from the SE09 or SE10.

**Answer:** False

Releasing is possible from SE01.

67. Because the logical system is an optional field and not used very often, it should always be left blank when creating a new client.

**Answer:** False

The logical system field is used extensively in all connections to the outside world. All the mySAP.com component systems use the logical system field as part of the communication layer. Additionally, ALE uses the logical system field.

68. Which of the following best describes application data?

**Answer: E**

Application data includes both master data (materials, vendors, customers) and transaction data (purchase orders, purchase requisitions, sales orders).

69. Which of the following is NOT a profile that can be used for client copies?

**Answer: C**

You cannot copy master data only, it is included when copying application data.

70. Client copies do not use many system resources.

**Answer: False**

Client copies consume both database space and runtime resources (work processes). Client copies can take several hours, depending on the type of data being copied.

71. The Cross-System Viewer should be used instead of change requests.

**Answer: False**

The Cross-System Viewer should be used when you have a specific issue where you need to compare customizing data between clients.

72. What is the transaction code for the Cross-System Viewer?

**Answer: B**

SCU0 is the transaction code for the Cross-System Viewer.

73. Which of the following best describes client maintenance settings?

**Answer: B**

Client maintenance settings can be set to 0, 1, or 2.

74. There are many different standard SAP R/3 release types.

**Answer: False**

There is only one standard release type.

75. Conflict resolution transports (CRTs) supply adapted objects to resolve conflicts between SAP R/3 and SAP add-ons.

**Answer:** True

CRTs are used only in add-ons, for example, IS-Retail or IS-OIL. They resolve conflicts that can arise between a patch (hot package or legal change patch) and an add-on.

76. OCS patches are recognized as modifications during upgrade and are overwritten. This is no problem, because each new SAP R/3 release contains all previous OCS corrections.

**Answer:** False

False, The Online Correction Support (OCS) is a set of corrections for errors in the SAP R/3 Repository and in ABAP Dictionary objects. These corrections are collected periodically in support packages and made available in OCS. OCS patches are not recognized as modifications during upgrade and are overwritten. This is no problem, as each new SAP R/3 release contains all previous OCS corrections.

77. What two transactions are used to apply fixes to SAP systems?

**Answer:** A, C

SNOTE is used for applying individual notes. SPAM is used for apply support packages. SPAM and SNOTE complement each other and both have to be used to properly maintain an SAP system.

78. You only have to use transaction SNOTE to keep your SAP system up to date.

**Answer:** False

One of the misconceptions about SNOTE is that you can keep your SAP system up to date with only SNOTE and that you do not have to use SPAM. This is not true because many corrections are delivered only via support packages. Note corrections cover only corrections in ABAP source code. Note corrections do not cover DDIC objects and other business objects such as logical transport objects, SAPscript forms, schemes in HR, and so on. This is why you have to use SNOTE in conjunction with SPAM.

79. You can get support packages from the following places.

**Answer:** A, B, E

SAP has many options for distributing support packages to customers, including SAP Service Marketplace, SAPNet.R/3 Frontend, and collection CDs.

80. The Note Assistant is a tool used to implement SAP Notes and has been available since SAP R/3 Release 4.5.

**Answer:** True

The Note Assistant became available in SAP R/3 4.5.

81. If you have already implemented SAP Notes in your system but did not use the Note Assistant, you must perform the following task:

**Answer:** B

Execute report SCWN\_REGISTER\_NOTES from SA38.

82. From what two locations can you install SAP Notes?

**Answer:** B, C

You can use this tool to load SAP Notes into your SAP system from both the SAP Marketplace and the SAPNet.R/3 Frontend.

83. What are some of the common errors encountered when installing support packages with SPAM?

**Answer:** A, B, C, D

TMS has to be working before you can successfully import a support package. Make sure that there is enough space in the transport directory (size of the files multiplied by 2). The latest SPAM/SAINT has to be downloaded and installed. A failed support package import will cause a new import of a support package to fail.

84. What is the very first step that you should perform before installing an industry solution or R/3 Plug-in with SAINT?

**Answer:** B

Because we enhance and improve the transaction constantly, we recommend that you always import the latest version from the SAP Service Marketplace before you perform an installation or upgrade.

85. You must use the modification adjustment with SAINT.

**Answer:** True

You must use modification adjustment with SAINT.

86. Which transaction do you use to install an industry solution?

**Answer:** D

Transaction SAINT is used to install add-ons, that is, industry solutions, R/3 Plug-ins and so on.



87. Select the choices that would require an R/3 Plug-in to be installed.

**Answer:** A, C

An example of this would be the SAP BW system integrating with the SAP R/3 system. SAP BW is a data warehouse system that is used for reporting. One of the main sources of information in SAP BW is data that has been extracted from SAP R/3 systems. In order for the SAP BW to extract data from SAP R/3, an R/3 Plug-in must be installed on the SAP R/3 side. This plug-in gives SAP R/3 the transactions and other data that it needs to be able to seamlessly work with SAP BW. The same principle applies to APO (Advanced Planner and Optimizer).

88. Which of the following are examples of industry solutions?

**Answer:** B, C

There are many examples of industry solutions. mySAP Automotive and mySAP Oil & Gas are just two examples. You can read more about industry solutions at the SAP Service Marketplace under Quick Link INDUSTRYSOLUTIONS.

89. When do you use modification adjustment with SAINT?

**Answer:** B

You need to adjust modifications for add-ons only. If you have modified SAP objects from the add-on that you want to install, you must adjust these objects when you import them. (Transaction SPDD adjusts dictionary objects, transaction SPAU adjusts repository objects.)

90. What are the two different methods used for installing languages?

**Answer:** A, D

There are two ways to import net languages into a SAP system during an SAP Upgrade and with transaction SMLT.

91. What are the two different methods used for installing Language Transports?

**Answer:** A

There are two ways to import new languages into an SAP system, during an SAP Upgrade and with transaction SMLT.

92. Choose the two languages that are installed automatically with a SAP installation.

**Answer:** B, C

English and German are automatically installed with any SAP Installation.

93. Do you have to classify a language that is imported?

**Answer:** True

You must classify each language so that the system can recognize it. Otherwise, you will not be able to import a language package, nor supplement the language.

94. If a Language Import fails when you are importing it with SMLT, how should you restart the import?

**Answer:** C

Always use transaction SMLT to restart an action. An action can only be restarted by the user who originally started the action. When you use transaction SMLT to restart an action, you make sure that the entries in the control tables are updated. You also make sure that the action is restarted and continued at the exact phase where it terminated.

95. In a one-system landscape, an ABAP program that drops ten tables in the database will not affect the production client.

**Answer:** False

Since the repository is cross-client, any dropping of tables could have an adverse affect on the your SAP R/3 environment.

96. Testing transports on your production box is absolutely safe. SAP transports always work and never need to be tested.

**Answer:** False

One of the reasons you should have a consolidation environment is to test the transport before it gets to the delivery environment.

97. How many systems does SAP recommend for a development project?

**Answer:** B

SAP recommends a three-system landscape.

98. Some of the advantages to a three-systems landscape are:

**Answer:** A, B, C

Being in charge may be an advantage.

99. In a multi-phased environment, it is impossible to have different releases of SAP R/3 within the landscape.

**Answer:** False

One of the advantages of the multi-phased landscape is that you can have different releases throughout the environment.

100. In a global implementation, it is possible to deliver for a delivery environment.

**Answer:** True

This is one of the advantages of having transport routes.

101. The graphical editor tool within the Transport Management System (TMS) is recommended for setting up an SAP R/3 system landscape.

**Answer:** True

This is an SAP recommendation.

102. The graphical editor tool makes adding transport routes more difficult.

**Answer:** False

The editor tool allows you to use a stylus to add transport routes.

103. BC sets can be reused by the project team.

**Answer:** True

This is one of the benefits of using BC sets.

104. The "simple" BC set is the most common type of BC set used.

**Answer:** True

This is the most common type. You go to the IMG structure, where you can select the customizing activities. Select the consecutive activities that compose a business process and copy all values relevant for control of the process.

105. Business Configuration Set will replace transport requests.

**Answer:** False

Business Configuration Sets were developed to complement, not replace, transport requests.

# *Chapter 7*

## **SAP Workload Analysis**

The questions in this Unit will prepare you in understanding the performance issues in SAP systems, which allows you to apply your skills to a wide range of SAP products.

You will be able to demonstrate your ability:

- Analyze the workload distribution in an SAP system
- Find critical performance bottlenecks
- Tune components of an SAP system
- Find poorly written ABAP programs that cause performance problems
- Find expensive SQL statements that cause heavy database load

1. Which Transaction code determines the dialog Response time?

*Choose the correct answer(s).*

- ☒ A ST03N
- ☒ B ST03
- ☐ C ST02
- ☐ D ST04
- ☐ E DB02

2. You cannot determine different workload statistic time intervals (last minute.s load, day, week, or month).

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

3. Which components make up the dialog response times?

*Choose the correct answer(s).*

- ☒ A Wait time
- ☐ B roll-out
- ☒ C roll-in
- ☒ D lock time

4. Load History only provides an instance-specific view.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

5. Which of the following functions are provided by Transaction STATTRACE:

*Choose the correct answer(s).*

- ☒ A System Selection
- ☒ B Data Selection
- ☒ C Application Logs
- ☐ D Systems Logs
- ☐ E User Logs

6. The data shown in transactions STAD and ST03N is derived from statistical data collected by the individual work processes.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

7. Where is the STAT file stored at the Operating System level?

*Choose the correct answer(s).*

- ☒ A <Drive>:\usr\sap\<SID>\DVEBMGS00\data)
- ☐ B <Drive>:\usr\sap\<SID>\DVEBMGS00\work)
- ☐ C <Drive>:\usr\sap\<SID>\SYS\log)
- ☐ D <Drive>:\usr\sap\trans\data)

8. What reports are triggered by RSCOLL00 which aggregates the stat file data to table MONI.

*Choose the correct answer(s).*

- ☒ A RSSTAT80
- ☒ B RSSTAT83
- ☐ C RSSTAT90
- ☐ D RSSTAT81

9. Transaction SM50 only gives a snapshot of the tasks currently executed by the work processes on the current instance.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

10 For every Dispatcher installed on a Server there is always a SAPOSCOL.

- ☒ True
- ☐ False

11. To access SAPOSCOL information from within the SAP system, use Transactions(s):

- ☒ A ST06
- ☐ B ST07
- ☒ C OS07
- ☒ D OS06

12. What transaction code provides instance specific buffer monitoring?

*Choose the correct answer(s).*

- ☐ A ST01
- ☐ B ST05
- ☒ C ST02
- ☐ D SM50

13. What hit ratio should the buffers show unless specified otherwise?

*Choose the correct answer(s).*

- ☐ A 96%
- ☒ B greater than 95%
- ☐ C greater than 98%
- ☐ D 100%

14. Swaps occur because there is not enough free space left in the page file for the new objects to be buffered.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

15. What is the role of the ICM?

*Choose the correct answer(s).*

- ☒ A Gateway to the Internet
- ☒ B Provides SMTP Connectivity
- ☒ C Answering Generic HTTP/HTTPs requests



16. You can only have one ICM process per Instance.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

17. The ICM can be monitored by various functions in transaction

*Choose the correct answer(s).*

- ☐ A SICM
- ☒ B SMICM
- ☐ C SCICM
- ☐ D STRUST

18. The user information for the ICM administration using the browser interface is stored (encrypted) in the file *icmauth.txt*

*Choose the correct answer(s).*

- ☒ A icmauth.txt
- ☐ B icmlog.txt
- ☐ C icmstat.txt
- ☐ D icm.txt

19. Which parameter is used to tune the ICM?

*Choose the correct answer(s).*

- ☒ A icm/min\_threads
- ☒ B icm/max\_threads
- ☒ C icm/max\_conn
- ☒ D icm/max\_sockets

20. Unlike physical memory, virtual memory cannot be allocated by the SAP system.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

21. Local workprocess memory is for:

*Choose the correct answer(s).*

- ☒ A ABAP Load
- ☒ B Data Stack
- ☒ C Buffer for Data Transfer
- ☒ D Local Roll Area
- ☒ E Local Paging Area

22. What does Virtual Memory Consist of:

*Choose the correct answer(s).*

- ☒ A Shared and Local Memory
- ☐ B Shared Memory
- ☐ C Local Memory
- ☒ D Extended Memory

23. Problems with the SAP memory configuration may be indicated for Extended Memory if:

*Choose the correct answer(s).*

- ☒ A Max use is more than 80% of In memory
- ☐ B Max use is less than 80% of In memory
- ☐ C Max use is more than 70% of In memory

24. Heap memory allocated by one dialog work process is not accessible to any other dialog work process.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

25. What parameter defines the first part of the roll area that is allocated to a dialog process?

*Choose the correct answer(s).*

- ☐ A ztta/roll\_page
- ☐ B ztta/roll\_extension
- ☒ C ztta/roll\_first
- ☐ D em/initial\_size\_MB

26. The working memory of a JVM (Java Virtual Machine) is divided into:

*Choose the correct answer(s).*

- ☐ A Infant Generation
- ☒ B Young Generation
- ☒ C Tenured Generation
- ☒ D Permanent Generation
- ☐ E Mature Generation

27. An optimum value for CPU idle time in ST06 is:

*Choose the correct answer(s).*

- ☐ A 25%
- ☐ B 20%
- ☒ C 30%

28. High swap/page activity usually is a sign of a memory bottleneck:

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

29. You can find hints on hardware bottlenecks by looking for:

*Choose the correct answer(s).*

- ☒ A High average wait time
- ☒ B High average load and generation time
- ☒ C High average roll time
- ☒ D High average database request time

30. What Transaction Code would you use to determine which reports/transactions contain expensive select statements?

*Choose the correct answer(s).*

- ☐ A SM50/SM66, ST06, STAD
- ☒ B SM50/SM66, ST03N, STAD
- ☐ C SM50/SM66, ST04, ST06
- ☐ D SM50/SM66, ST04, ST05, ST06

31. The work process overview (SM50/SM66) is a very valuable tool for analyzing the historical situations (for example, yesterday morning).

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

32. The size of the SQL trace file is given by the parameter:

*Choose the correct answer(s).*

- ☐ A rstr/max\_trcsize\_MB
- ☐ B rstr/min\_filesize\_MB
- ☒ C rstr/max\_filesize\_MB

33. If a SELECT statement exerts significant load on the database while giving very few results, you should:

*Choose the correct answer(s).*

- ☐ A Re-Write the ABAP Program
- ☐ B Reduce the size of the data being retrieved from the database
- ☒ C Create an Index on the table being queried

34. What table is updated regularly to evaluate changes in the tables:

*Choose the correct answer(s).*

- ☒ A DBSTATC
- ☐ A DDNTT
- ☐ A DDLOG

35. What Remote Function Calls (RFC) are available within SAP?

*Choose the correct answer(s).*

- ☒ A Synchronous RFC (sRFC)
- ☐ B Direct RFC (dRFC)
- ☒ C Transactional RFC (tRFC)
- ☒ D Queued RFC (qRFC)
- ☐ E Indirect RFC (iRFC)
- ☒ F Asynchronous RFC (aRFC)

**Answers**

1. Which Transaction code determines the dialog Response time?

**Answer:** A, B

2. You cannot determine different workload statistic time intervals (last minute.s load, day, week, or month).

**Answer:** False

3. Which components make up the dialog response times?

**Answer:** A, C, D

4. Load History only provides an instance-specific view.

**Answer:** False

5. Which of the following functions are provided by Transaction STATTRACE:

**Answer:** A, B, C

6. The data shown in transactions STAD and ST03N is derived from statistical data collected by the individual work processes.

**Answer:** True

7. Where is the STAT file stored at the Operating System level?

**Answer:** A

8. What reports are triggered by RSCOLL00 which aggregates the stat file data to table MONI.

**Answer:** A, B

9. Transaction SM50 only gives a snapshot of the tasks currently executed by the work processes on the current instance.

**Answer:** True

10. For every Dispatcher installed on a Server there is always on SAPOSCOL.

**Answer:** True

11. To access SAPOSCOL information from within the SAP system, use Transactions(s):

**Answer:** A, C, D

12. What transaction code provides instance specific buffer monitoring?

**Answer:** C

13. What hit ratio should the buffers show unless specified otherwise?

**Answer:** B

14. Swaps occur because there is not enough free space left in the page file for the new objects to be buffered.

**Answer:** False

Swaps occur for two reasons: not enough free space left in the buffer for buffering the new object, or the buffer has run out of free directory entries.

15. What is the role of the ICM?

**Answer:** A, B, C

16. You can only have one ICM process per Instance.

**Answer:** A

17. The ICM can be monitored by various functions in transaction

**Answer:** B

18. The user information for the ICM administration using the browser interface is stored (encrypted) in the file *icmauth.txt*

**Answer:** A

19. Which parameter is used to tune the ICM?

**Answer:** A, B, C, D

The parameter *icm/min\_threads* gives the minimum number of threads for the ICM, the maximum number of threads is determined by the parameter *icm/max\_threads*. The parameter *icm/max\_conn* determines the maximum number of (simultaneous) open connections in the ICM or in the SAP Web dispatcher.

20. Unlike physical memory, virtual memory cannot be allocated by the SAP system.

**Answer:** False

21. Local workprocess memory is for:

**Answer:** A, B, C, D, E

22. What does Virtual Memory Consist of:

**Answer:** A, D

Shared memory is associated with all the processes of one instance. SAP buffers contain global objects for all users and work processes, such as programs, and buffered table content. Extended memory contains objects associated with individual users and their open transactions, such as variables, lists, and internal tables.

23. Problems with the SAP memory configuration may be indicated for Extended Memory if:

**Answer:** A

24. Heap memory allocated by one dialog work process is not accessible to any other dialog work process.

**Answer:** True

25. What parameter defines the first part of the roll area that is allocated to a dialog process?

**Answer:** C

26. The working memory of a JVM (Java Virtual Machine) is divided into:

**Answer:** B, C, D

The area named young generation contains objects recently created by applications. Objects that have been in use for some longer time are automatically moved to the area named tenured generation. The area named permanent generation contains objects that are in permanent use by the VM, as central classes and methods.

27. An optimum value for CPU idle time in ST06 is:

**Answer:** C

The optimum CPU idle time in ST06 should stay around 30%, otherwise you will experience “wait for CPU” situation.

28. High swap/page activity usually is a sign of a memory bottleneck:

**Answer:** True

29. You can find hints on hardware bottlenecks by looking for:

**Answer:** A, B, C, D

30. What Transaction Code would you use to determine which reports/transactions contain expensive select statements?

**Answer:** B

31. The work process overview (SM50/SM66) is a very valuable tool for analyzing the historical situations (for example, yesterday morning).

**Answer:** False

The work process overview is only valuable for analyzing the current system state.

32. The size of the SQL trace file is given by the parameter:

**Answer:** C



33. If a SELECT statement exerts significant load on the database while giving very few results, you should:

**Answer:** C

34. What table is updated regularly to evaluate changes in the tables:

**Answer:** A

35. What Remote Function Calls (RFC) are available within SAP?

**Answer:** A, C, D, F

# *Chapter 8*

## **Database Administration – MS SQL Server**

The questions in this Unit will prepare you in understanding the database architecture in relation to the SAP systems.

You will be able to demonstrate your ability:

- Describe the main feature of Microsoft SQL Server Architecture
- Describe the implementation of SAP NetWeaver under Microsoft SQL Server 2005
- Monitor and identify performance problems of Microsoft SQL Server and find solutions for the problems detected
- Explain and perform different backup types and define a suitable backup strategy
- Perform and verify a database restore
- Handle common errors and perform regular tasks

1. The term **database server** is often used to describe the physical computer on which the database runs

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

2. Each instance of the SQL Server database engine has its own set of system and user databases that are shared between instances.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

3. What system and user database come as standard with SQL Server?

*Choose the correct answer(s).*

- ☐ A system
- ☐ B msdb
- ☒ C master
- ☐ D tmpdb
- ☒ E model

4. SQL Server comes with four standard services, they are:

*Choose the correct answer(s).*

- ☒ A SQL Server
- ☒ B SQL Server Agent
- ☐ C SQL Server SimpleText Search
- ☐ D SQL Server HTTP
- ☒ E SQL Server Browser
- ☒ F SQL Server FullText Search
- ☐ G SQL Server Batch

5. The **thread** is the basic unit of activity in Windows. Each process has at least one thread, and may have multiple threads. What Special threads are there for SQL Server?

*Choose the correct answer(s).*

- ☒ A Lock Manager
- ☒ B Lazy Writer
- ☐ C Log Reader
- ☒ D Checkpoint
- ☒ E Background Task

6. SQL Server can only operate in one authentication mode:

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

7. The **master database** holds the following information:

*Choose the correct answer(s).*

- ☒ A All system level information
- ☒ B All login accounts
- ☒ C All system configuration parameters
- ☐ D All background job information

8. A **schema** is a collection of table entities that form a single namespace:

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

9. The database objects are stored in datafiles in physical memory

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

10. The **page** is the unit of data storage in SQL Server what is the size of the page?

*Choose the correct answer(s).*

- ☐ A 32KB
- ☐ B 16KB
- ☒ C 8KB
- ☐ D 12KB

11. **Extents** are the basic unit in which space is allocated to tables and indexes. An extent consists of how many contiguous pages?

*Choose the correct answer(s).*

- ☐ A 12
- ☒ B 8
- ☐ C 16
- ☐ D 4

12. A database transaction is a series of:

*Choose the correct answer(s).*

- ☐ A SAP commands
- ☒ B SQL commands
- ☐ C Business Transactions

13. The database is accessed through the database interface via:

*Choose the correct answer(s).*

- ☒ A Open SQL
- ☐ B PL/SQL
- ☒ C Native SQL
- ☐ D RSQL

14. The following values are possible for the SQL Server processes:

*Choose the correct answer(s).*

- ☒ A Running
- ☒ B Runnable
- ☒ C Sleeping
- ☒ D Background
- ☒ E Suspended
- ☐ F Error

15. The ABAP program and its Open SQL commands are independent of the database system.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

16. Where can you setup the SQL TRACE within SAP?

*Choose the correct answer(s).*

- ☐ A ST02
- ☐ B ST04
- ☐ C ST06
- ☒ D ST05

17. SQL Server data access performance within a data file is directly related to the size of the data file:

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

18. The number of SAP data files is chosen during SAP product installation. How many data files does a typical SAP installation use:

*Choose the correct answer(s).*

- ☐ A 4
- ☐ B 5
- ☒ C 3
- ☐ D 1

19. The DB collector can be started using transaction ST04.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

20. Microsoft SQL Server 2005 Enterprise Edition can access up to 32 gigabytes (GB) of memory on Windows 2000 Server and Windows Server 2003.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

21. The Host PID is the process ID of an SAP work process.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

22. How should you maintain the Indexes in an SAP System?

*Choose the correct answer(s).*

- ☐ A Maintain the indexes at the database level
- ☐ B Maintain the indexes using DB02
- ☒ C Maintain the indexes using SE11
- ☐ D Only ABAP Developers should maintain the indexes

23. Which of the backup strategies exist for a SQL Server Database?

*Choose the correct answer(s).*

- ☒ A Differetial Backup
- ☐ B Incremental Backup
- ☐ C Full Offline Backup
- ☒ D Full Online Backup
- ☒ E Transaction Log Backup

24. You cannot run a Full Backup of the database if the Recovery Model is set to in SIMPLE Mode.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

25. You can run a Transaction Log Backup even if the Recovery Model is set to in SIMPLE Mode.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

26. The transaction log is not truncated when you perform a full backup.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

27. Microsoft SQL Server provides the following recovery models:

*Choose the correct answer(s).*

- ☒ A Full
- ☐ B Partial
- ☒ C Bulk Logged
- ☒ D Simple

28. Backups can be performed in the following ways:

*Choose the correct answer(s).*

- ☒ A DB13
- ☒ B SQL Server Management Studio
- ☒ C Query Analyser
- ☒ D Third Party Backup Tools



29. What High Availability Solutions are available for the SAP NetWeaver/ SQL Server systems:

*Choose the correct answer(s).*

- ☐ A Replication
- ☒ B Log Shipping
- ☒ C Database Mirroring
- ☒ D Failover Clustering

30. A point in time recovery of the database only requires the latest Full Backup and all subsequent Differential Backups:

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

31. Which report is used to gather Performance Statistics for the Database.

*Choose the correct answer(s).*

- ☐ A RSSTAT01
- ☐ B RSPO1040
- ☒ C RSCOLL00
- ☐ D RSORADB

32. What Transaction Code is used to Analyse Space, Table/ Index Information.

*Choose the correct answer(s).*

- ☐ A DB01
- ☒ B DB02
- ☐ C DB12
- ☐ D ST04

## Answers

1. The term **database server** is often used to describe the physical computer on which the database runs

**Answer:** True

2. Each instance of the SQL Server database engine has its own set of system and user databases that are shared between instances.

**Answer:** False

The system and user databases cannot be shared across Database Instances.

3. What system and user database come as standard with SQL Server?

**Answer:** B, C, E

The standard system and user databases that come as standard with the SQL Server database are master, msdb, tempdb and model.

4. SQL Server comes with four standard services, they are:

**Answer:** A, B, E, F

5. The **thread** is the basic unit of activity in Windows. Each process has at least one thread, and may have multiple threads. What Special threads are there for SQL Server?

**Answer:** A, B, D, E

6. SQL Server can only operate in one authentication mode:

**Answer:** False

SQL Server can operate in one of the following authentication modes:

**Windows authentication mode** allows users to connect using trusted security **SQL Server and Windows authentication mode** allows users to connect using either trusted security or SQL Server security.

7. The **master database** holds the following information:

**Answer:** A, B, C

8. A **schema** is a collection of table entities that form a single namespace:

**Answer:** False

9. The database objects are stored in datafiles in physical memory

**Answer:** False

These database objects are stored on pages in physical memory, along with other data objects defined in the system tables.

10. The **page** is the unit of data storage in SQL Server what is the size of the page?

**Answer:** C

11. **Extents** are the basic unit in which space is allocated to tables and indexes. An extent consists of how many contiguous pages?

**Answer:** B

12. A database transaction is a series of:

**Answer:** B

13. The database is accessed through the database interface via:

**Answer:** A, C

14. The following values are possible for the SQL Server processes:

**Answer:** A, B, C, D, E

15. The ABAP program and its Open SQL commands are independent of the database system.

**Answer:** True

16. Where can you setup the SQL TRACE within SAP?

**Answer:** D

17. SQL Server data access performance within a data file is directly related to the size of the data file:

**Answer:** False

In Microsoft SQL Server, data access performance is related to its concurrency on internal administration pages rather than to the size of the data file.

18. The number of SAP data files is chosen during SAP product installation. How many data files does a typical SAP installation use:

**Answer:** C

19. The DB collector can be started using transaction ST04.

**Answer:** True

20. Microsoft SQL Server 2005 Enterprise Edition can access up to 32 gigabytes (GB) of memory on Windows 2000 Server and Windows Server 2003.

**Answer:** False

21. The Host PID is the process ID of an SAP work process.

**Answer:** True

22. How should you maintain the Indexes in an SAP System?

**Answer:** C

23. Which of the backup strategies exist for a SQL Server Database?

**Answer:** A, D, E

24. You cannot run a Full Backup of the database if the Recovery Model is set to in SIMPLE Mode.

**Answer:** False

25. You can run a Transaction Log Backup even if the Recovery Model is set to in SIMPLE Mode.

**Answer:** False

26. The transaction log is not truncated when you perform a full backup.

**Answer:** True

27. Microsoft SQL Server provides the following recovery models:

**Answer:** A, C, D

28. Backups can be performed in the following ways:

**Answer:** A, B, C, D

29. What High Availability Solutions are available for the SAP NetWeaver/ SQL Server systems:

**Answer:** B, C, D

Replication is also a solution supported by Microsoft but not formally by SAP.

30. A point in time recovery of the database only requires the latest Full Backup and all subsequent Differential Backups:

**Answer:** False

A point in time recovery requires a Full Backup, all subsequent Differential Backups and the Transaction Log backup leading up to the point when the failure occurred.

31. Which report is used to gather Performance Statistics for the Database.

**Answer:** C

32. What Transaction Code is used to Analyse Space, Table/ Index Information.

**Answer:** B

# *Chapter 9*

## Database Administration – Oracle

The questions in this Unit will prepare you in understanding the Oracle database administration on SAP systems using tools and transactions provided by SAP.

You will be able to demonstrate your ability:

- describe the architecture of the Oracle database
- use the database management tools provided by SAP
- define a backup strategy
- perform backups with use of the SAP database management tools
- perform a restore/recovery of the database using the SAP tools
- explain the concepts of Oracle data storage management
- use the SAP tools to run regular database checks
- solve storage related problems
- define a strategy for refreshing the statistics used by the cost-based optimizer

1. The System Global Area consists of:

*Choose the correct answer(s).*

- ☒ A Database buffer
- ☐ B Redo Log Buffer
- ☒ C Shared Pool Area
- ☒ D Program Buffer

2. Which of the following statements is true?

*Choose the correct answer(s).*

- ☐ A The data files can be mirrored by Oracle
- ☒ B The online redo log files can be mirrored by Oracle
- ☒ C The control files can be mirrored by Oracle
- ☐ D The offline redo log files can be mirrored by Oracle

3. For minimal security of an Oracle database

*Choose the correct answer(s).*

- ☐ A The database must be installed on a cluster
- ☒ B The online redo log files must be mirrored
- ☐ C Online redo log files and data files must reside on different disks
- ☒ D Archiving must be turned on
- ☒ E Offline redo log files and data files must reside on different disks

4. Which files are stored in directory %ORACLE\_HOME%\database (on Windows), \$ORACLE\_HOME/dbs (on UNIX)?

*Choose the correct answer(s).*

- ☐ A Control files
- ☒ B Oracleprofiles
- ☒ C BR\*Tools profiles
- ☐ D Oracle traces and log files
- ☐ E BR\*Tools log files

5. Which users are standard Oracle users being created by the Oracle installer?

*Choose the correct answer(s).*

- ☒ A SYSTEM
- ☒ B SYS
- ☐ C SAP<SCHEMA-ID>
- ☐ D OPS\$<HOSTNAME> / <SAPSID>ADM (Windows),  
OPS\$<SAPSID>ADM (UNIX)
- ☐ E SYSDBA

6. Which users are standard Oracle users being created by the SAP installation tool?

*Choose the correct answer(s).*

- ☐ A SYSTEM
- ☐ B SYS
- ☒ C SAP<SCHEMA-ID>
- ☒ D OPS\$<HOSTNAME> / <SAPSID>ADM (Windows),  
OPS\$<SAPSID>ADM (UNIX)
- ☐ E SYSDBA

7. The correct procedure to change the password of database user SAP<SCHEMA-ID> is to use the Oracle command ALTER USER?

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

8. What Oracle tool is used to test the connection to the listener?

*Choose the correct answer(s).*

- ☐ A TNSLISTENER
- ☒ B TNSPING
- ☐ C NETSTAT



9. Which of the following tools does not have own menu?

*Choose the correct answer(s).*

- ☐ A BRTOOLS
- ☒ B BRBACKUP
- ☒ C BRCONNECT
- ☐ D BRSPACE
- ☐ E BRRECOVER

10. Because the interactive programs of BR\*Tools provide own menus, they cannot be called from BRTOOLS or BRGUI.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

11. If you know the correct SQL command, it is recommended to call the command (for example as seen in BR\*Tools) from SQLPLUS to perform actions on the database.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

12. All recommended regular activities for checks, housekeeping and backups can be scheduled in the DBA Planning Calendar (transaction DB13)

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

13. After creating the server profile from init<DBSID>.ora, you can change Oracle profile parameters in both, the server profile and init<DBSID>.ora.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

14. When using the server profile, to activate the parameter change

*Choose the correct answer(s).*

- ☐ A after changing parameters with scope both the database must be restarted
- ☐ B after changing parameters with scope memory the database must be restarted
- ☒ C after changing parameters with scope spfile the database must be restarted
- ☒ D with scope memory, the previous parameter value is used after restart of the database instance

15. When stopping the database using shutdown mode abort, instance processes are stopped immediately and no rollback of open transactions is performed during the shutdown.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

16. Which of the following shutdown modes leaves the database in a consistent state?

*Choose the correct answer(s).*

- ☒ A NORMAL
- ☒ B TRANSACTIONAL
- ☒ C IMMEDIATE
- ☐ D ABORT

17. The Oracle alert log file is located in directory:

*Choose the correct answer(s).*

- ☐ A \$SAPDATA\_HOME/saptrace/usertrace
- ☐ B \$SAPDATA\_HOME/saparch/background
- ☒ C \$SAPDATA\_HOME/saptrace/background
- ☐ D \$SAPDATA\_HOME/sapcheck/background

18. You lost data files and offline redo log files on a disk crash, because they were on the same disk. Complete recovery is anyhow possible, because you perform a backup of the offline redologs with BRARCHIVE twice per day.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

19. Assuming a full database backup and all offline redo log files would fit on one tape, you would need at least two tape to backup the database plus offline redo log files

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

20. Which of the following is true?

*Choose the correct answer(s).*

- ☒ A Using RMAN, you can perform online and offline backups
- ☒ B Using RMAN, you can perform complete, incremental and partial backups
- ☒ C Using RMAN, you can perform whole and full backups
- ☐ D You can perform incremental backups without using RMAN
- ☒ E You can perform partial backups without using RMAN
- ☐ F Before performing an incremental backup, a whole backup had to be performed

21. Your daily backups are performed with automatic tape selection, no volume for backup is specified. Which tapes will be accepted for backup (assuming the tape lock period is expired in all cases)

*Choose the correct answer(s).*

- ☐ A any labeled tape
- ☒ B the tape labeled with the volume name you got from DB13, *Goto → Tapes needed*
- ☒ C a tape labeled with volume name scratch
- ☐ D any unlabeled tape

22. Before performing an incremental backup, a level 0 had to be performed before. A backup of this type is called full backup.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

23. For complete recovery using the latest full and incremental backup, offline redo log files are not necessary.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

24. Concerning backups, which of the following is true?

*Choose the correct answer(s).*

- ☐ A When a daily offline backup is performed, backup of offline redo log files is not necessary
- ☒ B When performing an incremental backup, an extra database block verification does not need to be performed
- ☐ C Performing a daily consistent online backup is a sufficient backup strategy; no additional backups need to be performed
- ☐ D An online backup also backs up the offline redo log files

25. On a full backup, the database itself including the Oracle software directories are backed up.

*Determine whether this statement is true or false.*

- ☐ True
- ☒ False

26. When starting a backup directly from the command line using BRBACKUP, the result and logs is also shown in transaction DB14.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

27. The BR\*Tools profile init<DBSID>.sap is saved by

*Choose the correct answer(s).*

- ☒ A BRBACKUP
- ☒ B BRARCHIVE
- ☐ C BRTOOLS
- ☐ D not at all

28. An offline redo log file was backed up once by BRARCHIVE. The log file has status saved.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

29. To perform a complete database reset, you need one of the following backups:

*Choose the correct answer(s).*

- ☒ A complete offline backup
- ☐ B complete online backup
- ☒ C consistent online backup
- ☐ D backup of offline redo log files

30. When you loose a disk, to recover the database you must use the complete database recovery scenario.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

31. An operating system administrator accidentally delete a datafile. To recover the database you chose the Complete database recovery scenario.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

32. Your database is expected to grow to 300 GB. A good size for data files is:

*Choose the correct answer(s).*

- ☐ A 2GB
- ☒ B 4GB
- ☐ C 3GB

33. Oracle stores its data in tablespaces. A tablespace consists of one or more data files.

*Determine whether this statement is true or false.*

- ☒ True
- ☐ False

34. For optimal monitoring of the Oracle database within the CCMS alert monitor, you must

*Choose the correct answer(s).*

- ☒ A maintain check conditions in table DBCHECKORA using transaction DB17
- ☒ B schedule the database system check to run daily
- ☒ C maintain thresh holds in the CCMS alert monitor itself
- ☐ D schedule report RSDBMON0 to run daily

**Answers:**

1. The System Global Area consists of:

**Answer:** A, C, D

2. Which of the following statements is true?

**Answer:** B, C

3. For minimal security of an Oracle database,

**Answer:** B, D, E

4. Which files are stored in directory %ORACLE\_HOME%\database (on Windows), \$ORACLE\_HOME/dbs (on UNIX)?

**Answer:** B, C

5. Which users are standard Oracle users being created by the Oracle installer?

**Answer:** A, B

6. Which users are standard Oracle users being created by the SAP installation tool?

**Answer:** C, D

7. The correct procedure to change the password of database user SAP<SCHEMA-ID> is to use the Oracle command ALTER USER?

**Answer:** False

8. What Oracle tool is used to test the connection to the listener?

**Answer:** B

9. Which of the following tools does not have own menus?

**Answer:** B, C

These tools must be either called from the command line with all necessary options and parameters, or started from BRTOOLS.

10. Because the interactive programs of BR\*Tools provide own menus, the cannot be called from BRTOOLS or BRGUI.

**Answer:** False

All functional programs can be called from BRTOOLS or BRGUI.

11. If you know the correct SQL command, it is recommended to call the command (for example as seen in BR\*Tools) from SQLPLUS to perform actions on the database.

**Answer:** False

Using SQLPLUS is only necessary in rare cases, for example to execute scripts provided by SAP. Executing SQL commands seen in BR\*Tools is dangerous, because BR\*Tools usually perform additional actions and checks before and after executing the SQL command.

12. All recommended regular activities for checks, housekeeping and backups can be scheduled in the DBA Planing Calendar (transaction DB13)

**Answer:** True

13. After creating the server profile from init<DBSID>.ora, you can change Oracle profile parameters in both, the server profile and init<DBSID>.ora.

**Answer:** False

Changes are only allowed in the server profile preferably through BR\*Tools, as init<DBSID>.ora is regularly recreated from the server profile.

14. When using the server profile, to activate the parameter change

**Answer:** C, D

15. When stopping the database using shutdown mode abort, instance processes are stopped immediately and no rollback of open transactions is performed during the shutdown.

**Answer:** True



16. Which of the following shutdown modes leaves the database in a consistent state?

**Answer:** A, B, C

17. The Oracle alert log file is located in directory:

**Answer:** C

18. You lost data files and offline redo log files on a disk crash, because they were on the same disk. Complete recovery is anyhow possible, because you perform a backup of the offline redologs with BRARCHIVE twice per day.

**Answer:** False

The chance that you lost offline redo log files not being backed up yet is high. In this case, complete recovery is not possible.

19. Assuming a full database backup and all offline redo log files would fit on one tape, you would need at least two tape to backup the database plus offline redo log files

**Answer:** False

Using the one run strategy, a single tape is enough.

20. Which of the following is true?

**Answer:** A, B, C, E

21. Your daily backups are performed with automatic tape selection, no volume for backup is specified. Which tapes will be accepted for backup (assuming the tape lock period is expired in all cases)

**Answer:** B, C

22. Before performing an incremental backup, a level 0 had to be performed before. A backup of this type is called full backup.

**Answer:** True

23. For complete recovery using the latest full and incremental backup, offline redo log files are not necessary.

**Answer:** False

24. Concerning backups, which of the following is true?

**Answer:** B

25. On a full backup, the database itself including the Oracle software directories are backed up.

**Answer:** False

26. When starting a backup directly from the command line using BRBACKUP, the result and logs is also shown in transaction DB14.

**Answer:** True

27. The BR\*Tools profile init<DBSID>.sap is saved by

**Answer:** A, B

28. An offline redo log file was backed up once by BRARCHIVE. The log file has status saved.

**Answer:** True

29. To perform a complete database reset, you need one of the following backups:

**Answer:** A, C

30. When you loose a disk, to recover the database you must use the complete database recovery scenario.

**Answer:** True

31. An operating system administrator accidentally delete a datafile. To recover the database you chose the Complete database recovery scenario.

**Answer:** True

32. Your database is expected to grow to 300 GB. A good size for data files is:

**Answer:** B

33. Oracle stores its data in tablespaces. A tablespace consists of one or more data files.

**Answer:** True

34. For optimal monitoring of the Oracle database within the CCMS alert monitor, you must

**Answer:** A, B, C