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**Vendor:** IBM

**Exam Code:** A2090-919

**Exam Name:** Assessment: System Administrator for  
Informix Server 11.70 Assessment

**Version:** Demo

**Question No : 1**

Which sysmaster table can be queried to find the logging status of a database?

- A. sysdb
- B. sysdblog
- C. sysdatabases
- D. sysdblogstatus

**Answer: C**

**Explanation:**

**Question No : 2**

What output is NOT reported by the dbschema utility?

- A. The database logging mode.
- B. The schemas of remote databases.
- C. The table definitions without owner names.
- D. The onspaces commands to re-create your systems' dbspaces.

**Answer: A**

**Explanation:**

**Question No : 3**

Which command line utility displays real time statistics about the instance?

- A. dbinfo
- B. onstat
- C. dbschema
- D. onmachinfo

**Answer: B**

**Explanation:**

---

**Question No : 4**

Which onstat command will allow the gathering of statistics about the Informix Database Scheduler tasks that are currently running or scheduled to be run?

- A. onstat -g dbc
- B. onstat -g sch
- C. onstat -g adm
- D. onstat -g tsk

**Answer: A**

**Explanation:**

**Question No : 5**

What does the ovbuff field of an onstat -p output show?

- A. The number of times that a buffer was read.
- B. The number of times a buffer was extended.
- C. The number of times that any buffer was overwritten.
- D. The number of times the instance ran out of free buffers.

**Answer: D**

**Explanation:**

**Question No : 6**

Which SQL Administration API command will merge non-contiguous table extents?

- A. shrink
- B. defragment
- C. table repack
- D. merge extents

---

**Answer: B**

**Explanation:**

**Question No : 7**

By default, the alarm program gets executed for which event(s)?

- A. All events.
- B. Only for events with Severity code 1.
- C. Only for events with Severity code 5.
- D. Only for events with Severity code greater than 1.

**Answer: D**

**Explanation:**

**Question No : 8**

When a SELECT statement is executed which statement is true?

- A. The number and duration of the locks is dependent on the ISOLATION LEVEL.
- B. If COMMITTED READ isolation is in place then the SELECT will never encounter any locking errors.
- C. Within a transaction the database server will place row or page locks on a nonlogging table.
- D. If the SELECT is part of an UPDATE cursor then the database server will place an exclusive lock on the entire dataset.

**Answer: A**

**Explanation:**

**Question No : 9**

For a given procedure name, what is the objective of the SQL query shown below?

---

```
SELECT data
FROM sysprocbody a, sysprocedures b
WHERE a.procid = b.procid
AND b.procname = ?
AND datakey = 'T'
ORDER BY seqno;
```

- A. The query returns the ordered text form of the specified procedure body.
- B. The query returns the ordered compiled form of the specified procedure body.
- C. The query returns both ordered text and ordered compiled form of the specified procedure body.
- D. The query returns neither the ordered text nor the ordered compiled form of the specified procedure body.

**Answer: A**

**Explanation:**

#### Question No : 10

Which statement about auditing is NOT true?

- A. You can enable auditing row updates for all rows in the table.
- B. You can enable auditing row updates just for a subset of rows in the table.
- C. You can enable auditing row updates for all rows from all tables in the database except for system catalog tables.
- D. You can enable auditing row updates for all rows from all tables in the database and for the system catalog tables.

**Answer: B**

**Explanation:**

#### Question No : 11

How is the DBSSO group determined on a Unix system with role separation?

- A. It is always the group informix.

- 
- B. It is set using the onsecurity command line tool.
  - C. It is the group that owns \$INFORMIXDIR/dbssodir.
  - D. It is the group specified in the DBSSO onconfig parameter.

**Answer: C**

**Explanation:**

**Question No : 12**

Which role can create, alter, or delete trusted context objects?

- A. DBA
- B. DBSA
- C. DBSSO
- D. DBSECADM

**Answer: D**

**Explanation:**

**Question No : 13**

Which of the following activities does the Secure-Auditing Facility NOT monitor and record?

- A. Specific rows.
- B. Specific users.
- C. Specific tables.
- D. Specific DML operations.

**Answer: A**

**Explanation:**

**Question No : 14**

Which statement about mapped user functionality is true?

- 
- A. Mapped users cannot execute distributed operations.
  - B. Mapped users are allowed to run with multiple names.
  - C. The DBSA can control the access to tables at a row level using security labels.
  - D. The DBSA can grant database server access to externally authenticated users with no local account.

**Answer: D**

**Explanation:**

**Question No : 15**

To enable network encryption, what two steps must the administrator complete? (Choose two.)

- A. Enter the CSM name in the sqlhosts file.
- B. Set the IFX\_ENCCSM onconfig parameter to 1.
- C. Define the CSM in the concsm.cfg configuration file.
- D. Enter the CSM name in the onconfig NETTYPE parameter.
- E. Set the environment variable ENCCSMCFG to the name of the CSM.

**Answer: A,C**

**Explanation:**

**Question No : 16**

Which of the following privileges is NOT valid for a table fragment?

- A. ALL
- B. INSERT
- C. UPDATE
- D. CREATE INDEX

**Answer: D**

**Explanation:**

**Question No : 17**

Which statement regarding default roles is true?

- A.** An administrator can define a default role to assign only to the PUBLIC group for a particular database.
- B.** The privileges associated with a default role takes precedence over the privileges granted to an individual user.
- C.** An administrator can define a default role to assign to individual users or to the PUBLIC group for a particular database.
- D.** When a user connects to a database, it is necessary to use the SET ROLE DEFAULT statement in order to gain the default role privileges.

**Answer: C**

**Explanation:**

**Question No : 18**

Why do automatic checkpoints cause the database server to trigger more frequent checkpoints?

- A.** To avoid LRU flushes.
- B.** To ensure the buffer pool is always available.
- C.** To ensure the onstat -g ckp report is accurate.
- D.** To avoid transaction blocking during checkpoints.

**Answer: D**

**Explanation:**

**Question No : 19**

Which statement about the scope of UPDATE STATISTICS is true?

- A.** If the FOR PROCEDURE keywords are included but the name of any SPL routine is not specified, an error will be returned.
- B.** If the FOR TABLE keywords are used without specifying the name or synonym of a table, the database will not recalculate distributions for any table in the current database.

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**C.** If the FOR TABLE keywords are specified with a table but without specifying a list of columns, the database server will not recalculate distributions on all of the columns of the specified table.

**D.** If the FOR PROCEDURE specification, Table and Column Scope, and Resolution clauses are NOT included, then the statistics are updated for every table and SPL routine in the current database.

**Answer: D**

**Explanation:**

**Question No : 20**

Which two corrective actions may be taken if following message is logged in the online message log during a failed attempt to bring an instance online? (Choose two)

18:15:44 Size of resident + virtual segments 100000KB + 60000KB > 150000KB

18:15:44 total allowed by configuration parameter SHMTOTAL

- A. Decrease SHMADD
- B. Increase SHMTOTAL
- C. Decrease SHMBASE
- D. Increase SHMVIRTSIZE
- E. Decrease buffer pool size

**Answer: B,E**

**Explanation:**

**Question No : 21**

Without explicitly setting DBSPACETEMP and TEMPTABLE\_NOLOG, where will temporary tables be created by default? (Choose three.)

- A. The root dbspace.
- B. The users' home directory.
- C. The \$INFORMIXDIR/tmp directory.
- D. The dbspace in which the active database was created.
- E. The /tmp directory or PSORT\_DBTEMP.

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**Answer: A,D,E**

**Explanation:**

**Question No : 22**

What two onconfig parameters will help improve performance of new network connections?  
(Choose two.)

- A. NETTYPE
- B. VPCLASS
- C. NS\_CACHE
- D. FET\_BUF\_SIZE
- E. NUMFDSERVERS

**Answer: C,E**

**Explanation:**

**Question No : 23**

Given the following SQL command where the DBSPACETEMP onconfig and environment variables are set to valid dbspaces:

```
create temp table mytemp (columns) with no log;
```

in what order will the instance evaluate where to place this table?

- A. DBSPACETEMP environment variable, root dbspace, dbspace where the database was created, DBSPACETEMP onconfig parameter.
- B. DBSPACETEMP environment variable, DBSPACETEMP onconfig parameter, dbspace where the database was created, root dbspace.
- C. DBSPACETEMP onconfig parameter variable, DBSPACETEMP environment variable, root dbspace, dbspace where the database was created.
- D. DBSPACETEMP onconfig parameter variable, root dbspace, dbspace where the database was created, DBSPACETEMP environment variable.

**Answer: B**

**Explanation:**

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**Question No : 24**

What ONCONFIG parameter can be tuned to increase memory for hash joins?

- A. RESIDENT
- B. EXTSHMADD
- C. VP\_MEMORY\_CACHE\_KB
- D. DS\_NONPDQ\_QUERY\_MEM

**Answer: D**

**Explanation:**

**Question No : 25**

Which two options can be used to monitor PDQ resources? (Choose two.)

- A. onstat -l.
- B. onstat -p.
- C. onstat -D.
- D. onstat -g ath.
- E. SET EXPLAIN output.

**Answer: D,E**

**Explanation:**

**Question No : 26**

Which statement about updating statistics is NOT true?

- A. UPDATE STATISTICS HIGH scans the entire table.
- B. Data distributions are updated every time UPDATE STATISTICS LOW is executed.
- C. UPDATE STATISTICS operations will benefit by tuning the DBUPSPACE environment

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variable.

D. An UPDATE STATISTICS LOW command will ignore tables and indexes with modifications less than STATCHANGE.

**Answer: B**

**Explanation:**

**Question No : 27**

Most, but not all Virtual Processors, can be modified via the onmode -p command. Which CANNOT be modified?

- A. ADM
- B. BTS
- C. CPU
- D. CSM

**Answer: A**

**Explanation:**

**Question No : 28**

Which of the following gives a good initial estimate for the physical log size?

- A. 110% of rootdbs.
- B. 110% the default buffer pool.
- C. 110% of the logical log space.
- D. 110% of combined buffer pool.

**Answer: D**

**Explanation:**

**Question No : 29**

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Which two onconfig parameters can be set to backup/restore to/from a cloud storage location? (Choose two.)

- A. TAPEDEV
- B. TAPEBLK
- C. LTAPEBLK
- D. LTAPEDEV
- E. BAR\_BSA LIB\_PATH

**Answer: A,D**

**Explanation:**

**Question No : 30**

Which two objects are NOT included in a backup? (Choose two.)

- A. Tables
- B. Indexes
- C. External tables
- D. Simple blob data stored in simple blobspaces
- E. Basic text search indexes stored in external dbspaces

**Answer: C,E**

**Explanation:**

**Question No : 31**

What is used during Fast Recovery to return pages to the original state?

- A. Logical Log
- B. Physical Log
- C. External Tables
- D. Temporary DBSpaces

**Answer: B**

**Explanation:**

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**Question No : 32**

To maximize the performance of your OnBar backup and recovery operations, what should you do?

- A. Use a commercial storage manager.
- B. Use the bundled Informix Storage Manager (ISM).
- C. Use a combination of disk-based and tape-based backup devices.
- D. Use separate storage devices for instance spaces and logical logs.

**Answer: D**

**Explanation:**

**Question No : 33**

Which option would be used with "cdr define replicate" to create a shadow replicate?

- A. --backup
- B. --mirrors
- C. --shadow
- D. --synchronize

**Answer: B**

**Explanation:**

**Question No : 34**

How many paging files are required for SD secondary instances?

- A. There should always be two.
- B. It depends on how many CPU VPs you have.
- C. It depends on how many data dbspaces you have.
- D. It depends on how many temporary dbspaces you have.

---

**Answer: A**

**Explanation:**

**Question No : 35**

What statement about users accessing a Flexible Grid is true?

- A. Every user can execute commands on the Flexible Grid.
- B. Only user informix can execute commands on a Flexible Grid.
- C. Users have to be authorized to execute Flexible Grid commands.
- D. Commands can only be executed from the node on which the Flexible Grid was created.

**Answer: C**

**Explanation:**

**Question No : 36**

A Connection Manager is started with the following Service Level Agreement:

SLA report=(SDS+report\_server)

Where will a connection to the report SLA be redirected?

- A. Any available SDS (Shared Disk Secondary) server, then report\_server.
- B. Report\_server, then any available SDS server.
- C. Report\_server, then the SDS server with most available resources.
- D. The server with the most available resources in the SLA list, including all SDS servers and report\_server.

**Answer: D**

**Explanation:**

**Question No : 37**

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Which of the following is NOT a step in setting up HDR for the first time?

- A. Take a level 0 backup of the primary.
- B. Use oninit -v to bring up the secondary.
- C. Execute a physical restore on the secondary.
- D. Use onmode -d to specify the secondary instance name.

**Answer: B**

**Explanation:**

**Question No : 38**

Assuming you have a table with a replicate defined. A Flexible Grid procedure is executed changing data in that table. What statement about replication of the changes is true?

- A. The changes cannot be replicated.
- B. The changes are replicated by default.
- C. You have to call `ifx_set_erstate( )` to replicate changes.
- D. Only changes to primary key columns can be replicated.

**Answer: C**

**Explanation:**

**Question No : 39**

Given the following:

- 
- A. Update three rows.
  - B. Update one row and insert two rows.
  - C. Update two rows and insert one row.
  - D. Return a 26095 error - Cannot update or delete a row twice in a MERGE statement.

**Answer: C**

**Explanation:**

**Question No : 40**

Given the following SQL statement:

```
tab1 col1 col2
     1     1
     2     2
```

```
tab2 c1 c2
     1  3
     2  1
```

```
MERGE into tab1 USING tab2 on col1 = c1
      WHEN MATCHED THEN UPDATE
      SET col2 = col2 + c2
```

What does the merge statement do?

- A. For each row that matches the condition  $col1 = c1$ , it inserts a new row in tab1 with the sum of corresponding c2 and col2 column values.
- B. For the rows that match the condition  $col1 = c1$ , it adds the the c2 column value to the col2 column value and updates corresponding rows in tab1.
- C. For the rows that match the condition,  $col1 = c1$ , it adds the col2 column value to the c2 column value and updates corresponding rows in tab2.
- D. Deletes rows from tab2 and updates rows in tab1 that match the condition  $col1 = c1$  by adding the c2 column value to the col2 column value of corresponding rows in tab1.

**Answer: B**

**Explanation:**

**Question No : 41**

Which list fragmentation statement is true?

- A. It cannot be used for indexes.
- B. It allows overlapping fragments.
- C. It can only be used for numeric columns.
- D. It allows a fragment to be defined as a remainder.

**Answer: D**

**Explanation:**

**Question No : 42**

Fragment level statistics are NOT supported with which fragmentation strategy?

- A. List fragmentation.
- B. Interval fragmentation.
- C. Expression fragmentation.
- D. Round-robin fragmentation.

**Answer: D**

**Explanation:**

**Question No : 43**

Given the SQL explain output of this star join query, which is the fact table?

---

```
select sales.pk
from sales, region, product, date, customer
where sales.fk1 = region.pk
and sales.fk2 = product.pk
and sales.fk3 = date.pk
and sales.fk4 = customer.pk
and sales.pk < 5000 and region.data1 < 50
and product.data2 < 66 and date.data3 < 50
and customer.data4 < 71
```

Estimated Cost: 442

Estimated # of Rows Returned: 2

Maximum Threads: 21

1) sqlqa.customer: SEQUENTIAL SCAN (Parallel, fragments: ALL)  
Filters: sqlqa.customer.data4 < 71

2) sqlqa.sales: INDEX PATH  
Filters: sqlqa.sales.pk < 5000

(1) Index Name: sqlqa.iffk4  
Index Keys: fk4 (Parallel, fragments: ALL)  
Lower Index Filter: sqlqa.sales.fk4 = sqlqa.customer.pk NESTED LOOP JOIN

3) sqlqa.date: SEQUENTIAL SCAN (Parallel, fragments: ALL)

Filters:

Table Scan Filters: sqlqa.date.data3 < 50

- A. sales
- B. product
- C. region
- D. customer

**Answer: A**

**Explanation:**

### Question No : 44

Which sbspaces statement is FALSE?

- A. Sbspaces may be recoverable.
- B. Sbspaces can be of varying page size.
- C. Sbspaces may be part of round robin fragmentation.
- D. Sbspaces have read, write and seek properties similar to UNIX functions.

**Answer: B**

**Explanation:**

---

**Question No : 45**

Under which condition can table fragments NOT be eliminated during query processing?

- A. Tables with non-overlapping fragments and an equality query predicate.
- B. Tables with round-robin distribution scheme and a range query predicate.
- C. Tables with non-overlapping fragments on a single column and a range query predicate.
- D. Tables with overlapping or non-contiguous fragments on a single column and an equality query predicate.

**Answer: B**

**Explanation:**

**Question No : 46**

When adding space to the storagepool, which correctly describes the type of storage which may be placed in the storagepool?

- A. Cooked file only.
- B. Raw devices only.
- C. Cooked files and Raw devices only.
- D. Cooked files, Raw devices and Directories.

**Answer: D**

**Explanation:**

**Question No : 47**

Which object can be defragmented?

- A. index
- B. external table

- 
- C. temporary table
  - D. system catalog table

**Answer: A**

**Explanation:**

**Question No : 48**

Which statement about Informix data compression is true?

- A. Compressing data on one Enterprise Replication (ER) node affects the data on the other ER nodes.
- B. I/O-bound tables, for example, those with bad cache hit ratios, are good candidates for compression.
- C. Compression operations can be executed on a HDR secondary, RS secondary, or SD secondary server.
- D. Compressing data on a primary instance will not compress data on the High-Availability Data Replication (HDR) secondary instance.

**Answer: B**

**Explanation:**

**Question No : 49**

Which CANNOT be used to move compressed data from one database to another?

- A. dbload
- B. dbexport
- C. onunload
- D. High-Performance Loader

**Answer: C**

**Explanation:**

**Question No : 50**

---

Which storage space should be used to store columns defined as a BLOB or a CLOB?

- A. sbspace
- B. dbspace
- C. extspace
- D. blobspace

**Answer: A**

**Explanation:**

**Question No : 51**

What does the SP\_WAITTIME variable control?

- A. The maximum time allowed for distributed stored procedures to complete.
- B. The maximum amount of wait time for a reply from an H/A cluster secondary.
- C. The maximum time a user session will wait for a space extension to complete.
- D. The maximum amount of wait time permitted before an automatic space allocation will begin.

**Answer: C**

**Explanation:**

**Question No : 52**

When executing the SQL Admin API "defragment table" and "table repack" commands on the customer table, what will happen to the table? (Choose two.)

```
execute function sysadmin:task("defragment table","customer");
```

```
execute function sysadmin:task("table repack", "customer");
```

- A. Fragments of a table will be combined.
- B. Rows will be moved to the beginning of table.
- C. Given sufficient resources the number of extents in the table will be reduced.
- D. Free space at the end of the table will be released to the dbspace for other tables to use.

---

E. The table will be locked preventing inserts from happening for the duration of the commands.

**Answer: B,C**

**Explanation:**

**Question No : 53**

Which \$ONCONFIG parameter triggers an automatic increase to a chunk or space based on remaining free space?

- A. SP\_AUTOGROW
- B. SP\_THRESHOLD
- C. SP\_AUTOEXPAND
- D. SP\_CHUNKEXTEND

**Answer: B**

**Explanation:**

**Question No : 54**

Which statement about automatic space management is true?

- A. Spaces cannot be extended manually.
- B. Only unmirrored spaces can be extended.
- C. Mirrored and unmirrored spaces can be extended.
- D. The time interval for low storage space checks is not user configurable.

**Answer: B**

**Explanation:**

**Question No : 55**

Which environment option can rollback transactions using a table involved in an ALTER

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FRAGMENT ON TABLE operation?

- A. FORCE\_DML\_EXEC
- B. FORCE\_DDL\_EXEC
- C. ROLLBACK\_DML\_EXEC
- D. ROLLBACK\_DDL\_EXEC

**Answer: B**

**Explanation:**

**Question No : 56**

The user 'guest' connected to a local database world@lsys and wants to execute the following query:

```
DATABASE world@lsys;  
SELECT a.city, b.latitude  
FROM country a, globe@rsys:sadm.position b  
WHERE a.cid = b.cid;
```

What two permissions does the user 'guest' need to access the remote table? (Choose two.)

- A. User 'guest' must have SELECT permission on 'globe'
- B. User 'guest' must have CONNECT permission on 'globe'
- C. User 'guest' must have SELECT permission on 'globe@rsys:position'
- D. User 'guest' must have CONNECT permission on 'globe@rsys:sadm.position'
- E. User 'guest' must have RESOURCE permission on 'world@lsys'

**Answer: B,C**

**Explanation:**

**Question No : 57**

Identify a scenario when you CANNOT use in-place migration?

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