**100/100**

**Question 110 pts**

Which statement about data access layer is false?

Group of answer choices

With a data access layer, an application need not be concerned about how to access data from the database.

With a data access layer, an application need not be concerned about how to store program data into the database.

With a data access layer, an application need not be concerned about how to process data in the database.

None of the above

**Question 210 pts**

What is the main weakness of schema-based database?

Group of answer choices

Any data stored in the database must fit into its schema.

Any data processed in the database must fit into its schema.

A schema-based database cannot be redesigned to accommodate new data requirements.

All of the above

**Question 310 pts**

What is the main consideration for giving permissions?

Group of answer choices

Give only the permissions that are for future needs based on how a role in an organisation may evolve

Give only the permissions that are for current needs based on how a role contributes to an organisation

Give the permissions that are for current needs based on how a role contributes to an organisation  as well as for future needs based on how a role in an organisation may evolve

Give the permissions according to what all created users need to do.

**Question 410 pts**

Suppose user1 and user2 are members of role1. Role1 has permission to select and update on customer table. What is (are) the steps to allow user1 to be able to select on the customer table but not update on it.

Group of answer choices

Revoke update on customer to role1

Revoke update on customer to user1

Deny update on customer to user1

Grant select on customer to user1

**Question 510 pts**

Why is it a norm to create role in addition to creating users?

Group of answer choices

A role can be given permissions but a user cannot have permissions

A role is an additional description of users.

A role helps in the management of permissions given to users.

All of the above

**Question 610 pts**

Which SQL statement is valid given that userRole1 is a role and table1 is a table.

Group of answer choices

grant permission to userRole1 to select on table1

grant permission to role = userRole1 to select on table = table1

grant select on table1 to userRole1

grant select on table = table1 to role = userRole1

**Question 710 pts**

What is (are) the main attraction(s) of NoSQL?  
i.                     Horizontal scalability  
ii.                   BASE transactions  
iii.                 Availability

Group of answer choices

i and ii

i and iii

ii and iii

i, ii and iii

**Question 810 pts**

Hadoop applies \_\_\_\_\_\_\_\_.  
i.                     Vertical scalability  
ii.                   Horizontal scalability  
iii.                 Availability  
iv.                 Data replication

Group of answer choices

i and ii

ii and iii

i, ii and iii

ii, iii and iv

**Question 910 pts**

Identify the security guideline to ensure that no unauthorised personnel have physical access to the database server.

Group of answer choices

Brief staff on responsibilities pertaining to physical access and staff card

Access to physical location requires a staff card with access to location

Provide 24-hour surveillance

All of the above

**Question 1010 pts**

Why is it useful to support XML and JSON data types in databases?

Group of answer choices

Without XML and JSON data types, there is no support to store the data that is exchanged between applications, and so, the data cannot be stored in databases.

Without XML and JSON data types, there is no support to process the data that is exchanged between applications, and so, the data cannot be processed in databases.

Without XML and JSON data types, there is no support to process the elements in data that is exchanged between applications, and the data elements cannot be efficiently processed in databases.

All of the above