

Started on	Friday, 8 November 2024, 2:15 PM
State	Finished
Completed on	Friday, 8 November 2024, 2:29 PM
Time taken	14 mins 32 secs
Grade	27.00 out of 30.00 (90%)

Question 1

Correct

Mark 1.00 out of 1.00

Shadow paging incurs huge garbage collection. State true or false.

Select one:

☒ True

☐ False

The correct answer is 'True'.

Question 2

Correct

Mark 1.00 out of 1.00

For a relation R (ABCD), if  $A \rightarrow B$  then  $AC \rightarrow BC$ . Which inference rule is this?

☐ a. Transitive rule

☒ b. Augmentation rule

☐ c. Reflexive rule

☐ d. Decomposition rule

The correct answer is:  
Augmentation rule

Question 3

Correct

Mark 1.00 out of 1.00

In ER diagram, place, person etc are denoted as -----

☐ a. Relationships

☐ b. Fields

☐ c. Attributes

☒ d. Entities

The correct answer is:  
Entities

Question **4**  
Correct  
Mark 1.00 out of 1.00

XML uses a hierarchical model. State True of False.

Select one:

- ☒ True ✓  
☐ False

The correct answer is 'True'.

Question **5**  
Correct  
Mark 1.00 out of 1.00

Selecting a subset of columns from the set of all columns in a table is called Selection operation.

Select one:

- ☐ True  
☒ False ✓

The correct answer is 'False'.

Question **6**  
Correct  
Mark 1.00 out of 1.00

Physical schema is close to end user.

Select one:

- ☐ True  
☒ False ✓

The correct answer is 'False'.

Question **7**  
Correct  
Mark 1.00 out of 1.00

B tree provides better search performance in spatial data than R Tree.

Select one:

- ☐ True  
☒ False ✓

The correct answer is 'False'.

Question **8**  
Correct  
Mark 1.00 out of 1.00

The total number of attributes present in the relation is called -----

- ☐ a. Tuples  
☐ b. Fields  
☒ c. Degree of the relation ✓  
☐ d. Cardinality

The correct answer is:  
Degree of the relation

Question **9**  
Correct  
Mark 1.00 out of 1.00

Schema is also called extension.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question **10**  
Correct  
Mark 1.00 out of 1.00

----- are rules to identify identifiable objects and properties of space.

- ☐ a. Spatial Taxonomy
- ☐ b. Spatial query language
- ☐ c. None
- ☒ d. Spatial data models ✓

The correct answer is:  
Spatial data models

Question **11**  
Correct  
Mark 1.00 out of 1.00

Shadow paging is a concurrency control technique. State True or False

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question **12**  
Correct  
Mark 1.00 out of 1.00

A table can have more than one primary key.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question **13**  
Correct  
Mark 1.00 out of 1.00

Data is not physically stored in the order of the index. Instead, data is present in leaf nodes in the case of -----

- ☐ a. Sparse Indexing
- ☐ b. Cluster Indexing
- ☒ c. Secondary Indexing ✓
- ☐ d. Dense Indexing

The correct answer is:  
Secondary Indexing

Question **14**  
Correct  
Mark 1.00 out of 1.00

Defining the role of an User is an example of -----

- ☐ a. DQL
- ☒ b. DCL ✓
- ☐ c. None of the above
- ☐ d. DDL
- ☐ e. DML

The correct answer is:  
DCL

Question **15**  
Correct  
Mark 1.00 out of 1.00

----- specifies tag name that will appear in XML result.

- ☐ a. XMLROOT
- ☐ b. XMLAGG
- ☐ c. XMLFOREST
- ☒ d. XMLELEMENT ✓

The correct answer is:  
XMLEMENT

Question **16**  
Correct  
Mark 1.00 out of 1.00

More than one candidate key can exist for a table.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question **17**  
Correct  
Mark 1.00 out of 1.00

Partition skew is less likely to occur with hash partitioning. State true or false.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question **18**

Correct

Mark 1.00 out of 1.00

Which form of Intraquery parallelism supports high degree of parallelism?

- ☐ a. Interoperation Parallelism
- ☐ b. Neither of them
- ☒ c. Intraoperation Parallelism ✓
- ☐ d. Both

The correct answer is:  
Intraoperation Parallelism

Question **19**

Correct

Mark 1.00 out of 1.00

Point, linestring, polygon are examples for spatial operations.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question **20**

Correct

Mark 1.00 out of 1.00

----- specifies multiple element names

- ☐ a. XMLROOT
- ☐ b. XMLAGG
- ☒ c. XMLFOREST ✓
- ☐ d. XMLELEMENT

The correct answer is:  
XMLFOREST

Question **21**

Correct

Mark 1.00 out of 1.00

----- hides information about the physical storage structures and focuses on describing data types, entities, relationships, etc.

- ☒ a. Conceptual Schema ✓
- ☐ b. Internal Schema
- ☐ c. None of the above
- ☐ d. External Schema

The correct answer is:  
Conceptual Schema

Question **22**  
Correct  
Mark 1.00 out of 1.00

To which of the data model type does the following demerit best attribute to:

Maintenance is difficult since changes done in the database may want you to do changes in the entire database structure.

- ☐ a. Network data model
- ☒ b. Hierarchical data model ✓
- ☐ c. Object Oriented data model
- ☐ d. Relational data model

The correct answer is:  
Hierarchical data model

Question **23**  
Incorrect  
Mark 0.00 out of 1.00

When a query involves filtering operation and a join operation, the join operation will be performed first and then the filter will be applied over the join result. State true or false.

Select one:

- ☒ True ✗
- ☐ False

The correct answer is 'False'.

Question **24**  
Correct  
Mark 1.00 out of 1.00

Sophisticated Users are business analysts, scientists, engineers, others thoroughly familiar with the system capabilities.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question **25**  
Incorrect  
Mark 0.00 out of 1.00

A person can have more than one email id. In this case, email id is a composite attribute.

Select one:

- ☒ True ✗
- ☐ False

The correct answer is 'False'.

Question **26**

Correct

Mark 1.00 out of 1.00

Assuming that there are  $n$  nodes, which partitioning technique sends the  $i$ th tuple insert to node  $i \bmod n$ ?

- ☒ a. Round Robin ✓
- ☐ b. Range Partitioning
- ☐ c. None
- ☐ d. Hash Partitioning

The correct answer is:  
Round Robin

Question **27**

Correct

Mark 1.00 out of 1.00

Data Independence is the property of the database which states that the structure of a database can be changed without having to change any application.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question **28**

Correct

Mark 1.00 out of 1.00

Strict 2 Phase Locking protocol allows cascading rollback.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question **29**

Correct

Mark 1.00 out of 1.00

Transitive dependency is eliminated as part of -----

- ☐ a. 2NF
- ☐ b. BCNF
- ☐ c. 1NF
- ☒ d. 3NF ✓


The correct answer is:  
3NF

Question **30**

Incorrect

Mark 0.00 out of  
1.00

With respect to XML, ----- is synonymous to using CSS for HTML.

- ☐ a. DTD
- ☐ b. XSL
- ☒ c. XSD 
- ☐ d. XSLT

The correct answer is:  
XSL

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