

CS-403 Final Term Exams Preparation Virtual University

Sr	Questions	Answers Choice
1	Which of the following enforces a relation into 1st normal form?	<p>A. The domain of attribute must include only atomic values</p> <p>B. Every non-key attribute is fully functionally dependent on primary key</p> <p>C. non-key attribute is non-transitively dependent on primary key.</p> <p>D. Every non-key attribute is partially dependent on super key</p>
2	A candidate key that does not have a null value and is selected to uniquely identify all other attribute values in any given row is called a	<p>A. superkey</p> <p>B. candidate key</p> <p>C. primary key</p> <p>D. secondary key</p>
3	Identify the operation which is NOT one of the parts of the five basic set operations in relational algebra?	<p>A. Join</p> <p>B. Union</p> <p>C. Cartesian Product</p> <p>D. Set Difference</p>
4	Identify the correct statement about ANSI/SPARC architecture.	<p>A. The external level is not concerned with individual user perceptions</p> <p>B. The internal level, in a database system, will always be relational</p> <p>C. Any given database has exactly one conceptual schema and one physical schema, but it may have several external schemas.</p> <p>D. A data definition language is used to define the internal schema</p>
5	Which of the following is NOT a component of a DFD? Select correct option:	<p>A. Dataflow</p> <p>B. Datastore</p> <p>C. External entities</p> <p>D. Relationship between external entities</p>
6	Which feature of database provides conversion from inconsistent state of DB to a consistent state ensuring minimum data loss?	<p>A. User accessible catalog</p> <p>B. Data processing</p> <p>C. Authorization service</p> <p>D. Recovery service</p>
7	Which of following is NOT generally the aim of data partitioning and placement of data?	<p>A. Reduce Workload</p> <p>B. Balance Workload</p> <p>C. Merging different relations</p> <p>D. Speed up rate of useful works.</p>
8	Which of the following statements are Data Definition Language command?	<p>A. INSERT</p> <p>B. UPDATE</p> <p>C. GRANT</p> <p>D. TRUNCATE</p>
9	Identify the constraint that limits the values that can be placed in a column.	<p>A. NOT NULL</p> <p>B. CHECK</p> <p>C. FOREIGN KEY</p> <p>D. UNIQUE</p>
10	In a conceptual model for a university, what type of relationship exists between Grade and Student entities?	<p>A. 1:1</p> <p>B. 1:M</p> <p>C. M:M</p> <p>D. Ternary</p>
11	User rights information is stored in	<p>A. Physical database</p> <p>B. Catalog</p> <p>C. Logical database</p> <p>D. Buffer</p>
12	Which of the following is not a feature of TRANSACTION?	<p>A. Users should be able to regard the execution of each transaction as atomic</p> <p>B. Each transaction, run by itself</p> <p>C. must preserve the consistency of the database</p> <p>D. must preserve the atomicity of the database</p>

		D. dependant on other concurrent transactions
13	If K is a foreign key in relation R1, then	<p>A. every tuple of R1 has a distinct value for K</p> <p>B. k can not have a null value for tuples in R1</p> <p>C. K is a key for some other relation.</p> <p>D. K is a primary key for R1.</p>
14	Which of the following serves as a milestone or reference point in the log file?	<p>A. Constraints</p> <p>B. Relations</p> <p>C. Check points</p> <p>D. Transactions identities</p>
15	A collection of concepts that can be used to describe the structure of a database	<p>A. Database</p> <p>B. DBMS</p> <p>C. Data model</p> <p>D. Data</p>
16	Which of the following is not true about De-normalization?	<p>A. It is the process of attempting to optimize the performance of a database</p> <p>B. De-normalization is a technique to move from lower to higher normal forms of database modeling</p> <p>C. It enhances the performance of DB</p> <p>D. In de-normalization it is required to add redundant data.</p>
17	Which of the following is an example of volatile memory?	<p>A. RAM</p> <p>B. ROM</p> <p>C. Flash memory</p> <p>D. CPU</p>
18	Identify the correct statement with respect to normalization.	<p>A. Normalization is a formal technique that can be used only at the starting phase of the database design.</p> <p>B. Normalization can be used as a top-down standalone database design technique.</p> <p>C. The process of normalization through decomposition must achieve the lossless join property at any cost whereas the dependency reservation property is sometimes sacrificed.</p> <p>D. The process of normalization through decomposition must achieve the dependency reservation property at any cost whereas the lossless join property is sometimes sacrificed.</p>
19	Which of the following is NOT a component of a DFD?	<p>A. Dataflow</p> <p>B. Datastore</p> <p>C. External entities</p> <p>D. Relationship between external entities</p>
20	_____ records data by burning microscopic holes in the surface of the disk with a laser.	<p>A. Hard disk</p> <p>B. RAM</p> <p>C. Optical disk</p> <p>D. Floppy disk</p>