CS-403 Final Term Exams Preparation Virtual University

Sr	Questions	Answers Choice
1	Materialized views and Indexes are NOT similar by the following way(s).	A. hey consume storage space B. They must be refreshed when the data in their master tables changes C. They can be accessed directly using a SELECT statement D. All of the Given
2	Identify the correct statement about ANSI/SPARC architecture.	A. The external level is not concerned with individual user perceptions B. The internal level, in a database system, will always be relational C. Any given database has exactly one conceptual schema and one physical schema, but it may have several external schemas. D. A data definition language is used to define the internal schema
3	Which of the following is INCORRECT with respect to file systems?	A. At the physical level, pointer or hashed address scheme may be employed to provide a certain degree of data independence at the user level. B. A logical record is concerned with efficient storage of information in the secondary storage devices. C. Some physical organisations use pointers to record blocks to locate records on disk. D. The efficiency of a file system depends on how efficiently operations such as retrieve, insert, update, delete may be performed on the information stored in the file.
4	Which of the following is not true regarding Indexes?	A. Index can be defined even when there is no data in the table B. It support Range selections C. It can be created using 'Create Index' statement D. It can not be created on composite attributes
5	Which of the following is true for the relational model?	A. Degree of a relation is the number of rows in a relation B. Null value is a blank or zero value given to an attribute value when its value is inapplicable or its value is unknown C. Complex key is a key consisting of more than one attribute. D. Constraint is a rule that restricts the values in a database.
6	Identify the operation which is NOT one of the parts of the five basic set operations in relational algebra?	A. Join B. Union C. Cartesian Product D. Set Difference
7	Which feature of database provides conversion from inconsistent state of DB to a consistent state ensuring minimum data loss? Select correct option:	A. User accessible catalog B. Data processing C. Recovery service D. Authorization service
8	Which of the following enforces a relation into 1st normal form?	A. The domain of attribute must include only atomic values. B. Every non-key attribute is fully functionally dependent on primary key C. non-key attribute is non-transitively dependent on primary key. D. Every non-key attribute is partially dependent on super key

9	Identify which of the above statements is/are correct.	A. Only A B. Only B C. Only B and C D. Only A and B
10	Consider the following statements. A. An entity integrity constraint states that no primary key value can be null. B. A referential integrity constraint is specified between two relations. C. A foreign key cannot be used to refer to its own relation. Identify which of the above statements is/are correct	A. Only A B. Only B C. B and C D. A and B
11	Which of the following should not be a property of a database transaction?	A. Atomicity B. Isolation C. Durability D. Divergence
12	The ____ constraint specifies whether each entity supertype occurrence must also be a member of at least one subtype	A. specialization B. uniqueness C. inheritance D. completeness
13	Which of the following gives all the fields from employee table named as EMP?	A. SELECT * from EMP; B. SELECT emp* from EMP' C. SELECT emp_id where EMP; D. SELECT * where EMP;
14	Which of the following is not a feature of TRANSACTION?	A. Users should be able to regard the execution of each transaction as atomic B. Each transaction, run by itself C. must preserve the consistency of the database D. dependant on other concurrent transactions
15	The information regarding ‘views’ and ‘Integrity constraints’ are found in	A. Both Data Dictionary and System Catalog B. System Catalog C. Data Dictionary D. Indexes
16	Which of the following are the general activities, which are performed during the development of application programs?	A. Data input programs B. Editing C. Display D. All of given
17	Which of the following is not true about De-normalization?	A. It is the process of attempting to optimize the performance of a database B. De-normalization is a technique to move from lower to higher normal forms of database modeling C. It enhances the performance of DB D. In de-normalization it is required to add redundant data.
18	Which of the following is an example of volatile memory?	A. RAM B. ROM C. Flash memory D. CPU
19	In a conceptual model for a university, what type of relationship exists between Grade and Student entities?	A. 1:1 B. 1:M C. M:M D. Ternary
20	User rights information is stored in	A. Physical database B. Catalog C. Logical database D. Buffer