

Tutorial I

Fill in the blanks. (20 Marks)

No.	Questions	Answers
1	_____ is a software to store, process and retrieve data for one or more users.	
2	Database system includes four major components, namely data, hardware, software and _____.	
3	Data is one of the important factors of database and there are two types of data: user data and _____.	
4	In ANSI/SPARC architecture, it is divided into three levels: _____ level, internal level and conceptual level.	
5	In _____ level, it defines all database entities, their attributes, and their relationships.	
6	Conceptual level describes the actual data stored in the database in the form of tables and relates them by means of _____.	
7	Client and server can run on separate machines thus providing _____.	
8	In relational system, _____ operation extracts specified columns from a table.	
9	The relational model represents the database as a collection of _____.	
10	In the formal relational model terminology, a row is called a _____, a column header is called an attribute, and the table is called a relation.	

No.	Questions	Answers
11	The candidate key used to identify tuples in the relation is called _____.	
12	Primary key value cannot be _____.	
13	A _____ is a language in which a user request information from the database.	
14	The relational model is divided into three parts: data structure (or objects), _____, and data manipulation (or operators).	
15	Domain provides a set of _____ values, from which various attributes in various relations draw their actual values.	
16	The relational model does include two general integrity features: candidate (and primary) keys and _____ keys.	
17	A _____ value indicates an absent value that may exist but be unknown or that may not exist at all.	
18	For certain of relational operations, the two operands are required to be _____.	
19	The _____ operation performs the analogous function for vertical or column-wise computations.	
20	Special relational operations in relational algebra are _____, project, join and divide.	

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