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2021 CSB043

B.Tech (5th sem) Class Test, Sept 2023 Database Management Systems (CS3102)

17

F. M. = 20

Time - 30 minutes

Answer all questions

1. At which level of data abstraction it describes how the data is actually stored?

at physical level 2 2

- 2. Capacity to alter database schema at one level without altering any other schema level is classified as
 - (a) data mapping
 - (b) data independence
 - (c) data dependence
 - (d) data transformation

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- 3. Files are logically partitioned into storage units of fixed-length known as
 - (a) Sectors
 - (b) Tracks
 - (c) Segments
 - (d) Blocks

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- 4. Which of the following is/are database user/s?
 - (a) DBA
 - (b) Programmer
 - (c) End user
 - (d) All of the above

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- 5. Collection of information stored in a database at a particular moment is:
 - (a) view
 - (b) schema
 - (c) instance
 - (d) none of the above

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b) Primary key	
References	
d) Check constraint	
7. Let E1 and E2 be two entities in an E/R diagram with simple single-valued attributes. R1 and R2 are two relationships between E1 and E2, where R1 is one-to-many and R2 is many-to-many. R1 and R2 do not have any attributes of their own.	+
What is the minimum number of tables required to represent this situation in the relational model?	
3 tables	
8. Given relations r(w, x) and s(y, z), the result of 'select distinct w, x from r, s' is guaranteed to be same as r, provided:	
(a) r has no duplicates and s is non-empty (b) r and s have no duplicates (c) s has no duplicates and r is non-empty (d) r and s have the same number of tuples	
9. The employee salary should not be greater than Rs. 50000. What type of constraints is it?	
check Constraint 1	
10. Which of the following is not correct about view? (a) view does not physically exist (b) view is a table (c) view is used as securing mechanism (d) update through view is sometimes ambiguous	

Foreign key is the one in which the _____ of one relation is referenced in another relation.

6. Fill in the blank:

a) Foreign key