Started on	Tuesday, 24 September 2024, 8:01 AM
State	Finished
Completed on	Tuesday, 24 September 2024, 8:03 AM
Time taken	1 min 25 secs
Marks	5.00/5.00
Grade	**10.00** out of 10.00 (**100**%)

Question 1

Correct

Mark 1.00 out of 1.00

In a database, data redundancy can lead to _____

- a. reduced storage space utilization.
- b. simplified data updates.
- c. improved data integrity.
- d. inefficient use of storage and increased storage requirements. ✔

Question 2

Correct

Mark 1.00 out of 1.00

In the context of database design, what is the purpose of index structures?

- a. To introduce data redundancy
- b. To minimize storage efficiency
- c. To accelerate data retrieval operations ✔
- d. To complicate the normalization process

Question 3

Correct

Mark 1.00 out of 1.00

In the First Normal Form (1NF), every attribute must hold atomic values. What does "atomic" mean in this context?

- a. Simple and indivisible ✔
- b. Complex and compound
- c. Unique and distinct
- d. Numeric and integer

Question 4

Correct

Mark 1.00 out of 1.00

In the context of relational databases, what is a candidate key?

a. A key that uniquely identifies all attributes in a relation
b. A key that is a subset of the primary key
c. A key that can uniquely identify a tuple in a relation ✔
d. A key that has the highest cardinality

Question 5

Correct

Mark 1.00 out of 1.00

What constitutes the main disadvantage of data redundancy within databases?

a. Improved data organization
b. Enhanced data retrieval speed
c. Increased risk of inconsistencies and errors ✔
d. Greater data security