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CS5340 Databases – Fall 2025 (Quiz # 1)

Name: _____   Roll No: _____

Instructions

1- Read the Questions carefully to give concise Answers.
2- Answers outside the box will not be considered. Answers must be readable
3- Clearly mention any assumptions you have taken in your Answers.
4- Explanation is only optional for MCQs that are based on definitions.
5- Use of unfair means will result in an award of ZERO marks.

Q1. Which relational concept ensures that each student in a database is uniquely identifiable?

A. Foreign key

B. Primary key

C. Alternate key

D. Default constraint

Explain your answer:

Q2. Which SQL Server data type is designed to store globally unique identifiers (GUIDs)?

A. BIT

B. UNIQUEIDENTIFIER

C. XML

D. VARBINARY

Explain your answer:

Q3. Which SQL Server string type is deprecated and should be avoided in new designs?

A. CHAR(n)

B. VARCHAR(n)

C. TEXT

D. NVARCHAR(n)

Explain your answer:

Q4. If a table has a composite primary key (OrderID, ProductID), which is TRUE?

A. Either column alone must be unique

B. Only the combination must be unique

C. Both columns may allow NULL

D. No foreign key can reference it

Explain your answer:

Q5. Which constraint automatically assigns a value when none is supplied?

A. CHECK   B. FOREIGN KEY

C. DEFAULT   D. UNIQUE

Explain your answer:

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Q6. Which constraint is primarily responsible for entity integrity?

A. CHECK   B. FOREIGN KEY

C. PRIMARY KEY   D. NOT NULL

Explain your answer:

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Q7. Which SQL Server schema is created by default in every database?

A. sales   B. hr

C. dbo   D. model

Explain your answer:

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Q8. A company defines two schemas: finance.Invoice and sales.Invoice. What advantage does this bring?

A. Smaller database size   B. Automatic indexing

C. Avoids naming conflicts and organizes   D. Faster query execution
objects

Explain your answer:

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Q9. Which SQL Server system database contains critical login and configuration info needed to start the instance?

A. master

B. msdb

C. model

D. tempdb

Explain your answer:

Q10. Which SQL statement type deletes a table definition and all its data permanently?

A. DML

B. DDL

C. DCL

D. TCL

Explain your answer:

Q11. Which function returns the first non-NULL value from a list of expressions?

A. NULLIF

B. ISNULL

C. COALESCE

D. TRY_CAST

Explain your answer:

Q12. What is the result of the query SELECT SUM(Price) FROM Products; if some Price values are non-numeric text?

A. It succeeds by auto-converting

B. It fails due to invalid data

C. It returns 0

D. It returns NULL

Explain your answer:

Q13. Which SQL clause filters rows before grouping occurs?

A. WHERE   B. HAVING

C. ORDER BY   D. GROUP BY

Explain your answer:

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Q14. In Docker, what happens if the SA_PASSWORD does not meet complexity rules?

A. Container assigns a default password   B. Container fails to start

C. Container runs but disables SA login   D. Container accepts it silently

Explain your answer:

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Q15. Which C# loop is most appropriate for iterating over all elements of an array?

A. for   B. while

C. foreach   D. do-while

Explain your answer:

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END OF QUIZ