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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:

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

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| --- | --- |
| A. BIT | B. UNIQUEIDENTIFIER |
| C. XML | D. VARBINARY |

Explain your answer:

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

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| --- | --- |
| A. CHAR(n) | B. VARCHAR(n) |
| C. TEXT | D. NVARCHAR(n) |

Explain your answer:

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

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| 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:

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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?

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| --- | --- |
| 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?

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| --- | --- |
| A. Smaller database size | B. Automatic indexing |
| C. Avoids naming conflicts and organizes objects | D. Faster query execution |

Explain your answer:

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

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| --- | --- |
| A. master | B. msdb |
| C. model | D. tempdb |

Explain your answer:

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

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| --- | --- |
| A. DML | B. DDL |
| C. DCL | D. TCL |

Explain your answer:

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

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| A. NULLIF | B. ISNULL |
| C. COALESCE | D. TRY\_CAST |

Explain your answer:

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

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| A. It succeeds by auto-converting | B. It fails due to invalid data |
| C. It returns 0 | D. It returns NULL |

Explain your answer:

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Q13. Which SQL clause filters rows before grouping occurs?

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| --- | --- |
| 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?

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| --- | --- |
| 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?

|  |  |
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| A. for | B. while |
| C. foreach | D. do-while |

Explain your answer:

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END OF QUIZ  
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