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## CS5340 Databases – Fall 2025 ( Quiz # 1 )

Name: \_\_\_\_\_

Roll No: \_\_\_\_\_

### Instructions

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- 1- Read the Questions carefully to give concise Answers.
  - 2- Answers outside the box will not be considered. Answers shall 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.
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Q1. In the relational model, what ensures each tuple is uniquely identifiable?

A. Foreign Key

B. Primary Key

C. CHECK constraint

D. DEFAULT constraint

Explain your answer:

Q2. Which SQL Server type should be used for globally unique identifiers?

A. BIT

B. UNIQUEIDENTIFIER

C. XML

D. NVARCHAR

Explain your answer:

Q3. What is the main role of a foreign key in SQL Server?

A. Prevents NULLs

B. Defines entity integrity

C. Enforces relationships between tables

D. Provides default values

Explain your answer:

Q4. Which SQL Server constraint enforces a rule like Age  $\geq$  18?

A. PRIMARY KEY

B. UNIQUE

C. CHECK

D. DEFAULT

Explain your answer:

Q5. Which constraint ensures that duplicate values cannot exist in a column, but NULLs are allowed?

A. UNIQUE

B. PRIMARY KEY

C. FOREIGN KEY

D. NOT NULL

Explain your answer:

Q6. Which SQL Server system database stores backup and job scheduling information?

A. master

B. msdb

C. model

D. tempdb

Explain your answer:

Q7. Which SQL statement type is used for removing an entire table definition and data?

A. DELETE

B. DROP

C. TRUNCATE

D. REVOKE

Explain your answer:

Q8. If SQL Server master database is corrupted, what happens?

A. Only queries using tempdb fail

B. SQL Server instance cannot start

C. Only backups stop working

D. New tables cannot be created

Explain your answer:

Q9. Which function in SQL Server returns NULL if two compared values are equal?

A. ISNULL

B. COALESCE

C. NULLIF

D. TRY\_CAST

Explain your answer:

Q10. What is the result of SELECT SUM(Price) FROM Products; if non-numeric text exists in Price column?

A. Query runs fine and ignores text

B. Query fails with conversion error

C. Returns NULL for all rows

D. Returns 0 for all rows

Explain your answer:

Q11. Which query retrieves all columns from Sales.Customer?

A. SELECT Customer FROM Sales;

B. SELECT ALL FROM Sales.Customer;

C. SELECT \* FROM Sales.Customer;

D. GET \* FROM Sales.Customer;

Explain your answer:

Q12. In SQL, which clause groups rows to perform aggregate functions like COUNT or SUM?

A. GROUP BY

B. ORDER BY

C. HAVING

D. WHERE

Explain your answer:

Q13. In Docker, what does the --name option do?

A. Maps ports

B. Sets a container name

C. Accepts license agreement

D. Defines SQL Server password

Explain your answer:

Q14. Which Docker flag is required for persisting SQL Server data across restarts?

A. -p

B. -d

C. -v

D. -e

Explain your answer:

Q15. In C#, what does `for(int i=0; i<3; i++) { Console.WriteLine(i); }` print?

A. 1,2,3

B. 0,1,2

C. 0,1,2,3

D. 2,3,4

Explain your answer:

END OF QUIZ

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