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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 have to 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. Which column type is most appropriate for storing addresses of varying length?

A. CHAR

B. VARCHAR

C. INT

D. BIT

Explain your answer:

Q2. A professor searches for "CS340" but fails to find a course stored in a CHAR(6) column. Why?

A. CHAR pads values with spaces like "CS340 "

B. VARCHAR auto-trims spaces

C. SQL auto-converts CHAR to VARCHAR

D. CHAR converts to NVARCHAR internally

Explain your answer:

Q3. Which relational concept ensures that no two rows share the same StudentID?

A. Candidate Key

B. Primary Key

C. Foreign Key

D. CHECK

Explain your answer:

Q4. A composite primary key is defined on (OrderID, ProductID). Which is true?

A. Each column must be unique on its own

B. The pair (OrderID, ProductID) must be unique

C. NULL values are allowed in either column

D. No foreign keys can reference it

Explain your answer:

Q5. Which SQL Server constraint guarantees a column cannot have duplicate values but may allow NULLs?

A. CHECK

B. UNIQUE

C. PRIMARY KEY

D. NOT NULL

Explain your answer:

Q6. Which system database in SQL Server is recreated fresh every restart?

A. master

B. msdb

C. model

D. tempdb

Explain your answer:

Q7. Which category of SQL statements controls user permissions?

A. DML

B. DCL

C. DDL

D. TCL

Explain your answer:

Q8. Which of the following is a DML command?

A. SELECT

B. CREATE

C. GRANT

D. ALTER

Explain your answer:

Q9. Which SQL function replaces NULL with a specified replacement value?

- A. NULLIF
- B. ISNULL
- C. TRY\_CONVERT
- D. PARSE

Explain your answer:

Q10. Which query ensures the first non-NULL among Email, Phone, Address is returned?

- A. ISNULL(Email, Phone, Address)
- B. COALESCE(Email, Phone, Address)
- C. CAST(Email AS varchar)
- D. NULLIF(Email, Address)

Explain your answer:

Q11. In SQL, what happens if you run WHERE ShippedDate = NULL?

- A. Rows with NULL ShippedDate are returned
- B. No rows are returned
- C. Syntax error occurs
- D. NULLs are treated as empty strings

Explain your answer:

Q12. Which keyword is used in SQL Server to rename a column in the result set?

- A. RENAME
- B. AS
- C. ALIAS
- D. NAME

Explain your answer:

Q13. In Docker, what happens if you don't use a volume for SQL Server?

- A. Data persists across restarts
- B. Data is lost when container is removed
- C. Database becomes read-only
- D. Backup is stored automatically

Explain your answer:

Q14. What does the -d flag in a Docker run command do?

- A. Deletes the container after stop
- B. Runs in detached mode
- C. Enables debug mode
- D. Sets database schema

Explain your answer:

Q15. In C#, what does the static void Main(string[] args) method represent?

- A. The program's entry point
- B. A constructor for Program class
- C. A test-only function removed at build
- D. A background thread initializer

Explain your answer:

END OF QUIZ

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