

**Class : 12**

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**SECOND MID TERM TEST - 2024**

Time Allowed : 1.30 Hours]

**COMPUTER SCIENCE**  
**YouTube/ Akwa Academy**

[Max. Marks : 50

I. Choose the correct answer:

10x1=10

- What symbol is used for SELECT statement?
  - $\sigma$
  - $\pi$
  - X
  - $\Omega$
- Which of the following shape is used to mention the relationship in ER-diagram?
  - Rectangle
  - Ellipse
  - Diamond
  - Square
- Relational database model was first proposed by
  - E F Codd
  - E.E Codd
  - E F Cadd
  - E F Codder
- What is the acronym of DBMS?
  - DataBase Management Symbol
  - Database Managing System
  - DataBase Management System
  - DataBasic Management System
- Which command lets to change the structure of the table?
  - SELECT
  - ORDER BY
  - MODIFY
  - ALTER
- Queries can be generated using
  - SELECT
  - ORDER BY
  - MODIFY
  - ALTER
- In which of the following datatype, the size of the data entry varies considerably?
  - char
  - varchar
  - decimal
  - integer
- Which of the following creates an object which maps data to a dictionary?
  - Listreader ()
  - reader ()
  - tuple reader ()
  - DictReader ()
- The command used to skip a row in a CSV file is
  - next ()
  - skip ()
  - omit ()
  - bounce ()
- A CSV file is also known as a -----
  - Flat File
  - 3D File
  - String File
  - Random File

**PART - II**

II. Answer any 5 questions: (Q.No: 17 Compulsory )

5x2=10

- List some examples of RDBMS.
- What is Normalization?

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13. What is the difference between SQL and MySQL?
14. What is CSV File?
15. Mention the two ways to read a CSV file using Python.
16. What is use of next () function?
17. Write about the data control language commands.

**PART - III**

**III. Answer any 5 questions: (Q.No:24 Compulsory )**

**5x3=15**

18. Explain Cartesian product with a suitable example.
19. What is a constraint? Write short note on Primary key constraint.
20. What is the difference between Select and Project command?
21. What is the difference between the write mode and append mode.
22. Write a SQL statement using DISTINCT keyword.
23. Write a note on open () function of python. What is the difference between the two methods?
24. What is the difference between sort() and sorted() function in CSV?

**PART - IV**

**IV. Answer the following questions:**

**3x5=15**

25. (a) Explain the different types of data model.

**(OR)**

(b) Explain the characteristics of RDBMS

26. (a) Write the different types of constraints and their functions.

**(OR)**

(b) Write a SQL statement to create a table for employee having any five fields and create a table constraint for the employee table.

27. (a) Differentiate Excel file and CSV file.

**(OR)**

(b) Write the rules to be followed to format the data in a CSV file.

**TPR/12/CS/2**