



# B.K. BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS  
A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL



## PERIODIC TEST 2025-26

### INFORMATION TECHNOLOGY (802)

Class : XII SCIENCE/COMMERCE/ARTS (SUBJECT-04)

Date : 01-07-2025

Admission No.:

Duration : 1 Hr

Max. Marks : 25

Roll No.:

#### General Instructions:

Try to attempt all questions as per given order.

All questions are compulsory.

The Question Paper is divided into Three sections Section A to C.

- Section A has 10 questions and attempt only 7. Each carry 1 mark each.
- Section B has 10 questions and attempt only 6. Each carry 2 marks each.
- Section C has 4 questions and attempt only 2. Each carry 3 marks each.

#### Section-A

1. Why do we need a database? 1  
A) To increase redundancy  
B) To make data storage inefficient  
C) To organize and manage large amounts of data  
D) To replace programming languages
2. Who among the following is responsible for providing access and monitoring usage of the database? 1  
A) End User  
B) Application Programmer  
C) Database Administrator (DBA)
3. Which of these is a type of relational model constraint? 1  
A) File constraint  
B) Domain constraint  
C) Record constraint  
D) System constraint
4. **Referential integrity ensures:** 1  
A) Records are always deleted  
B) Foreign keys match primary keys in another table  
C) Every field is mandatory  
D) All keys are unique
5. The number of attributes in a relation is called its \_\_\_\_\_. 1  
A. Degree      B. Domain      C. Cardinality      D. Attribute

6. The student with id = 1 changes his name to 'Rahul'. Which command is appropriate? 1  
 A) CHANGE students SET name = 'Rahul' WHERE id = 1;  
 B) UPDATE students SET name = 'Rahul' WHERE id = 1;  
 C) SET name = 'Rahul' IN students WHERE id = 1;  
 D) MODIFY students SET name = 'Rahul' WHERE id = 1;
7. You no longer need the students table. Which SQL command will delete it permanently? 1  
 A) DELETE TABLE students;  
 B) REMOVE students;  
 C) DROP TABLE students;  
 D) CLEAR students;
8. What will happen if you try to insert a NULL value into a column defined as a PRIMARY KEY? 1  
 A. The NULL value will be accepted  
 B. An error will occur  
 C. The NULL value will be replaced by zero  
 D. The table will be deleted
9. Identify the **declarative sentence**: 1  
 A) Close the door.  
 B) Did you eat lunch?  
 C) I like reading books.  
 D) Please help me.
10. Which of the following is a **barrier** to active listening? 1  
 A) Making eye contact  
 B) Asking questions  
 C) Interrupting the speaker  
 D) Nodding while listening

### SECTION - B

- 11 Name any two aggregate function used in SQL. 2
- 12 Write any two advantages of using a database? 2
- 13 What are the types of users in DBMS? 2
- 14 What is Not Null Constraint? 2
- 15 What is the purpose of the CHECK constraint in SQL? 2
- 16 Write an SQL query to Set salary to a fixed amount (e.g., 60000) for EmployeeID 101. 2
- 17 Write an SQL query to create a table named Libary with the following columns: 2  
 BookID    INTEGER            Primary Key  
 Title     VARCHAR(100)   NOT NULL  
 Author    VARCHAR(50)    NOT NULL  
 Price     DECIMAL(7,2)
- 18 What is aggregate function? 2
- 19 What is Active Listening? 2
- 20 What is Compound Sentence? 2

### SECTION – C

- 21 Write three points what is the need for a databases in organization? 3
- 22 Define : a. Unique key b. Candidate key 3
- 23 a. Create a table named Students with the following fields: 3

Column Name	Data Type	Constraints
StudentID	INT	Primary Key
Name	VARCHAR(50)	Not Null
Class	VARCHAR(10)	Not Null
Marks	INT	

b. Insert the following student records into the Students table:

StudentID	Name	Class	Marks
101	Riya	12-A	87
102	Aarav	12-B	78

- c. Add a new column named Email of type VARCHAR(100) to the Students table.
- 24 Differentiate between CHAR(n) and VARCHAR(n) data types of MySQL. Give examples to support your answer. 3

**\*\* ALL THE BEST ! \*\***