



B.K. BIRLA CENTRE FOR EDUCATION

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

MID-APRIL TEST 2026-27 INFORMATION TECHNOLOGY (802)

Class: XII (SUBJECT-5)

Date: 18-04-2026

Admission No. :

Time : 1 hr

Max Marks: 25

Roll No. :

General Instructions:

1. Please read the instructions carefully.
2. This Question Paper contain two sections: Section A & Section B.
3. Section A has Objective type questions whereas Section B contains Subjective type questions.
4. All questions of a particular section must be attempted in the correct order.
5. **SECTION A - OBJECTIVE TYPE QUESTIONS (09 MARKS):**
 - i. This section has 02 questions.
 - ii. Marks allotted are mentioned against each question/part.
 - iii. There is no negative marking.
 - iv. Do as per the instructions given.
6. **SECTION B – SUBJECTIVE TYPE QUESTIONS (16 MARKS):**
 - i. This section has 12 questions.
 - ii. A candidate has to do 7 questions.
 - iii. Do as per the instructions given.
 - iv. Marks allotted are mentioned against each question/part.

SECTION A: OBJECTIVE TYPE QUESTIONS

Q.(1) Answer any 5 out of the given 9 questions :

(5 x 1 = 5)

- (i) What is the primary purpose of a database, as described in the provided text ?
 - (a) To represent a mini real world
 - (b) To create complex applications
 - (c) To replace real world data
 - (d) To organize data in a random format
- (ii) Why are databases crucial for modern information systems, according to the text ?
 - (a) They allow data to be disorganized and unstructured
 - (b) They enable easy data retrieval with the help of complex query languages
 - (c) They ensure data consistency, provide security and allow for data backup
 - (d) They are primarily used for reporting and analytics, not data storage
- (iii) The number of attributes in a relation is called its

(a) Degree	(b) Attribute
(c) Cardinality	(d) Domain
- (iv) What SQL command is used to display a list of all databases in a database management system ?

(a) Display Databases;	(b) List databases;
(c) Show databases;	(d) View Databases;

- (v) What is the initial step in setting up a database system ?
 - (a) Executing the Create database command
 - (b) Designing the database schema
 - (c) Populating the database with data
 - (d) Configuring database permissions

- (vi) Which SQL command is used to display the tables within a specific database ?
 - (a) Show Database_Name;
 - (b) Display Database_Name;
 - (c) Show Tables from Database_Name;
 - (d) List tables Database_Name;

- (vii) What are the characteristics of an ideal message ?
 - (a) clear
 - (b) concise
 - (c) accurate
 - (d) all of these.

- (viii) How many stages of active listening exist?
 - (a) One
 - (b) Two
 - (c) Five
 - (d) Six

- (ix) Which of the following can be a barrier to active listening?
 - (a) Noisy environment
 - (b) Not maintaining eye contact with the speaker
 - (c) not being attentive
 - (d) All of these

Q.(2) Fill in the blanks :

(4 x 1 = 4)

- (i) The information about entities in the real world is stored in a format within a database.
- (ii) A Database Management System (DBMS) controls how data is on a computer for easy access.
- (iii) In SQL, while applying conditions on a group, instead of WHERE clause clause is used.
- (iv) command deletes one or more tuples from a Table.

SECTION B: SUBJECTIVE TYPE QUESTIONS

Answer any 5 out of the given 8 questions:

(5 x 2 = 10)

- Q. (3) What is Data and Information ? Explain with example.
- Q. (4) What are the type of users in DBMS ? Name all and explain any one of them.
- Q. (5) Write two advantages and two disadvantages of DBMS approach.
- Q. (6) Name any four aggregate functions used in SQL.
- Q. (7) Write SQL command to create the following table ITEM:

Column Name	Datatype
G_ID	Char(4)
Description	Varchar(20)
Manufacture_Date	Date
Price	Decimal
Warranty	Int

Q. (8) Suggest the datatypes for the following columns of Salary table to be created :

- Emp_ID
- Name
- Basic Salary
- DateofJoin

Q. (9) Define the following terms : (a) Active Listening (b) Interview

Q. (10) Explain any two factors that affect active listening.

Answer any 2 out of the given 4 questions :

(2 x 3 = 6)

Q.(11) Explain any three components / elements of a communication cycle.

Q.(12) Write short notes on the following :

- (a) Primary key
- (b) Foreign key
- (c) Candidate key

Q.(13) Take the below table as an example. (Table Name : Employee)

Employee_num	HRA	DA	Gross	PF Contributions
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Write an SQL query to display for the following :

- (a) Employee_num, HRA and Gross for all the employees.
- (b) Employee_num, DA and Pf Contributions for employees whose DA is 7000 or more.
- (c) Only the list of Employee_num's

Q.(14) Consider the following table : (Table Name : Library)

Bid	Name	Author	Price	Mem_name	Issue_Date
B01	Wings of Fire	APJ Abdul Kalam	550	Sarita	2018-05-20
B02	The Monk who sold his Ferrari	Robin Sharma	340	Simmi	20108-03-15
B03	You can win	Shiv Khera	230	Rajat	2018-04-16
B04	Who moved my cheese	Spencer Johnson	450	Ram	2018-03-17
B05	Real Success	Patrick Mather - Pike	250	Sia	2018-06-18

Write the SQL command for the following statements :

- (a) Display the entire table.
- (b) Display those records having Mem_name Ram.
- (c) Display Name and Author of those books whose Price is more than 200.

***** ALL THE BEST *****