



B.K. BIRLA CENTRE FOR EDUCATION

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



TERM 1 EXAMINATION (2025-26) INFORMATION TECHNOLOGY (802)

Class: XII (SUBJECT-5)

Date: 05-09-2025

Admission No. :

Time : 3 hrs.

Max Marks: 60

Roll No. :

General Instructions:

1. Please read the instructions carefully.
2. This Question Paper consists of 22 questions in 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 (30 MARKS):**
 - i. This section has 05 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 (30 MARKS):**
 - i. This section has 17 questions.
 - ii. A candidate has to do 11 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 4 out of the given 6 questions on Employability Skills.

(4 x 1 = 4)

- (i) The is a face to face meeting and discussion between two or more people for a specific purpose.
- | | |
|---------------|-------------------|
| (a) Interview | (b) Message |
| (c) Object | (d) None of these |
- (ii) Self-management is also called
- | | |
|------------------|-------------------|
| (a) Self control | (b) Personality |
| (c) Stress | (d) None of these |
- (iii) Mona is helping her sister to overcome a personality disorder. What should she do ?
- | | |
|-------------------------------|---------------------------|
| (a) Talk to her sister | (b) Engage her in hobbies |
| (c) Help her build confidence | (d) All of these |
- (iv) The intersection point between a row and column is called
- | | |
|-----------|------------|
| (a) Row | (b) Column |
| (c) Table | (d) Cell |
- (v) What kind of software are Adobe Spark and Keynote ?
- | | |
|-------------------|------------------|
| (a) Documentation | (b) Presentation |
| (c) Spreadsheet | (d) DBMS |
- (vi) An individual who initiates, creates and manages a new business can be called
- | | |
|---------------------|--------------------|
| (a) A leader | (b) A manager |
| (c) An entrepreneur | (d) A professional |

Q.(2) Answer any 3 questions out of the given 4 questions on Introduction to database Concepts.

(3 x 1 = 3)

- (i) What is one of the advantages of using a tabular format for storing data in a database ?
 - (a) It allows easy storage, retrieval and data manipulation.
 - (b) It increases data complexity.
 - (c) It makes data extraction difficult.
 - (d) It prevents interaction with applications.
- (ii) Why are databases crucial for modern information systems ?
 - (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 role does SQL play in a database system ?
 - (a) Ensures data uniqueness and consistency
 - (b) Provides security for data in transit
 - (c) Enables easy data retrieval and querying
 - (d) Allows data backup and recovery

Q.(3) Answer any 6 questions out of the given 7 questions on Working with SQL.

(6 x 1 = 6)

- (i) 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;
- (ii) 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
- (iii) 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;
- (iv) command displays list of databases available in the current server.
 - (a) Show Databases
 - (b) Show tables
 - (c) Create tables
 - (d) Display tables
- (v) Which language is used to manage data in a database ?
 - (a) Java
 - (b) HTML
 - (c) SQL
 - (d) C++
- (vi) What is the purpose of the SELECT statement ?
 - (a) To update data in a table
 - (b) To delete data from a table
 - (c) To insert data into a table
 - (d) To retrieve data from a table
- (vii) What command means “display all columns” ?
 - (a) SHOW COLUMNS
 - (b) DISPLAY COLUMNS
 - (c) LIST COLUMNS
 - (d) SELECT *

Q.(4) Answer any 7 questions out of the given 9 questions on Operating Web based Applications.

(7 x 1 = 7)

- (i) In which phase of the web application creation is design of the application created ?
 - (a) Requirement Definition
 - (b) Implementation
 - (c) Design
 - (d) Testing

- (ii) What does the R in IRCTC stand for ?
 (a) Robot (b) Rover (c) Railway (d) Rebel
- (iii) NICNET – A national satellite based computer network in India was launched in the year :
 (a) 1986 (b) 1987 (c) 1990 (d) 1992
- (iv) Unit, integration and user acceptance are all forms of :
 (a) Frontend development (b) Backend development
 (c) Integration (d) Testing
- (v) What kind of online courses does Khan Academy provide ?
 (a) Free (b) Paid
 (c) Mobile Wallets (d) Internet banking
- (vi) The first step in online shopping is to :
 (a) Visit the websites (b) Open your smartphone
 (c) Use your debit card (d) None of these
- (vii) Credit card bills as well as Internet and cable bills can be paid :
 (a) Online (b) Offline
 (c) Both (a) and (b) (d) None of these
- (viii) Before purchasing a product, you can go through the given by other customers and learn more about the quality of the product from their experiences.
- (ix) systems allow you to compare prices also.

Q.(5) Answer any 10 questions out of the given 12 questions on Java Programming with Net beans. (10 x 1 = 10)

- (i) GUI stands for ?
- (ii) The getText() is used to text.
- (iii) Which operator is used to perform addition in Java ?
 (a) + (b) -
 (c) * (d) /
- (iv) What will be the value of x after the following code :
int x = 5;
x += 3;
 (a) 8 (b) 5 (c) 3 (d) 15
- (v) What is the result of the expression 8%3 in Java ?
 (a) 2 (b) 3 (c) 2.67 (d) 2.0
- (vi) Which operator is used to increment a variable by 1 in Java ?
 (a) ++ (b) -- (c) += (d) * =
- (vii) In Java, what is the purpose of the “if” statement ?
 (a) To declare a variable
 (b) To repeat a block of code until a condition is met
 (c) To execute a block of code conditionally based on a Boolean expression
 (d) To perform arithmetic operations
- (viii) What happens if the condition specified in an “if” statement evaluates to false ?
 (a) The program terminates
 (b) The code block associated with the “if” statement is skipped
 (c) The code block associated with the “if” statement is executed
 (d) An exception is thrown
- (ix) In java, why is it necessary to initialize variables before usage ?
 (a) To ensure that the variable holds a specific value throughout its lifecycle.
 (b) To prevent memory leaks in the program
 (c) To allow the compiler to allocate the appropriate amount of memory for the variable
 (d) To optimize the performance of the program by reducing memory consumption

- (x) Which logical operator in Java evaluates to True if either of the operands is true ?
 (a) && (b) || (c) ! (d) %
- (xi) Which part of a “for” loop in Java is optional ?
 (a) Initialization (b) Condition
 (c) Increment/Decrement (d) All parts are optional
- (xii) Which of the following statements is used to terminate a “for” loop prematurely in Java ?
 (a) Continue (b) Exit (c) Break (d) Return

SECTION B: SUBJECTIVE TYPE QUESTIONS

Answer any 3 out of the given 4 questions on Employability Skills

(3 x 2 = 6)

- Q. (6)** Define the following : (a) Active Listening (b) Interview
- Q. (7)** Define self-motivation. Why is self-motivation important ?
- Q. (8)** What is a function in Calc ? Explain the following Calc functions with the help of examples :
 (a) Count() (b) MAX()
- Q. (9)** List any four qualities of an Entrepreneur. Explain any two.

Answer any 3 out of the given 5 questions on Subject Specific Skills.

(3 x 2 = 6)

- Q.(10)** What is Data and Information ? Explain with example.
- Q.(11)** Name and explain any two aggregate functions used in SQL. Give example also.
- Q.(12)** Write SQL command to create the following table :
 Table : Gadget

Column name	Datatype
G_ID	Char(4)
Description	Varchar(20)
Manufacture_date	Date
Price	Decimal
Warranty	Int

- Q.(13)** What is E-Governance ? Name any two E-Governance sites of India.
- Q.(14)** What is the difference between print() and println() command in Java ?

Answer any 2 out of the given 3 questions on Subject Specific Skills.

(2 x 3 = 6)

- Q.(15)** Name and explain any three types of users available in DBMS. .
- Q.(16)** Take the below table as an example. (Table Name : Student)

Student_name	AdmNo	DOB	Marks	MobNo
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Write an SQL query to display for the following :

- (a) Student_name, AdmNo and Marks for all the students.
- (b) Student_name, AdmNo and DOB for students whose Marks are 300 or more.
- (c) Only the list of Student_name
- Q.(17)** What are the best practices for naming variables in Java ? Explain any three

Answer any 3 out of the given 5 questions on Subject Specific Skills.

(3 x 4 = 12)

- Q.(18)** Write short notes on the following :
 (a) Primary key (b) Foreign key (c) Candidate key (d) Super key

Q.(19) Consider the following table : Student

RollNo	Name	Class	Marks	Grade
101	Ramesh	XII	85	A
102	Sunita	XII	72	B
103	Manish	XII	91	A
104	Priya	XII	64	C

Write SQL query for the following :

1. Display names and marks of students who have scored more than 80 marks.
2. Display RollNo, Name, and Grade of students having Grade 'A'.
3. Display all students in descending order of Marks.
4. Display the entire table.

Q.(20) Consider the following table : Order

OrderID	CustomerName	Product	Quantity	Price
1	Rahul	Pen	10	5
2	Meena	Notebook	5	40
3	Suresh	Pencil	20	3
4	Anita	Geometry Box	2	60

Write SQL Query for the following :

1. Display CustomerName, Product, and TotalAmount (Quantity × Price) for all orders.
2. Display the details of orders where Quantity is more than 5.
3. Display products in alphabetical order of Product name.
4. Display the entire table.

Q.(21) Write and explain any eight precautions that you must take while performing online transactions.

Q.(22) Write a program in Java for the following :

- (a) To print “Hello World”
- (b) To display addition of two numbers 3 and 5.

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