



B.K. BIRLA CENTRE FOR EDUCATION

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

PRE BOARD 1 EXAM : 2025-26 INFORMATION TECHNOLOGY (802)

Class: XII (SUBJECT-4)

Date: 10/11/2025

Admission No. :

Time : 3 hrs.

Max Marks: 60

Roll No. :

General Instructions:

1. Please read the instructions carefully.
2. This Question Paper consists of 24 questions in two sections: Section A & Section B.
3. Section A has Objective type questions whereas Section B contains Subjective type questions.
4. Out of the given (6 + 18 =) 24 questions, a candidate has to answer (6 + 11 =) 17 questions in the allotted (maximum) time of 3 hours.
5. All questions of a particular section must be attempted in the correct order.
6. **SECTION A - OBJECTIVE TYPE QUESTIONS (30 MARKS):**
 - i. This section has 06 questions.
 - ii. There is no negative marking.
 - iii. Do as per the instructions given.
 - iv. Marks allotted are mentioned against each question/part.
7. **SECTION B – SUBJECTIVE TYPE QUESTIONS (30 MARKS):**
 - i. This section has 18 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) Listening, speaking, reading, and writing together form the process of _____, which helps people share ideas.
- | | |
|-------------------|----------------------|
| (a) Communication | (b) Active listening |
| (c) Interview | (d) None of these |
- (ii) Meena often feels that others will leave her, and she shows extreme mood swings and fear of rejection. She may be suffering from _____ personality disorder.
- | | |
|----------------|---------------|
| (a) Borderline | (b) Dependent |
| (c) Avoidant | (d) Obsessive |
- (iii) The ability to control one's emotions, thoughts, and actions in any situation is called _____.
- | | |
|------------------|-------------------|
| (a) Self Control | (b) Personality |
| (c) Stress | (d) None of these |
- (iv) Mr. Verma keeps a list of 1,000 products in a spreadsheet. To find any item quickly, he should _____ the data
- | | |
|------------------|-------------------|
| (a) Apply filter | (b) sort the data |
| (c) use password | (d) format data |

- (v) Ramesh runs a bakery. He finds that flour costs less in another city, so he starts purchasing it from there to increase profits. This shows he:
- (a) Makes decisions (b) Divides income
(c) Takes risk (d) None of these
- (vi) Visiting natural areas to enjoy and protect their beauty without harming them is known as _____.
- (a) Nature tourism (b) Environment tourism
(c) Eco-tourism (d) None of these

Q.(2) Answer any 5 questions out of the given 7 questions

(5 x 1 = 5)

- (i) Which of the following is a benefit of keeping data in tables inside 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) What is Information?
- (iii) What is the function of SQL 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
- (iv) Which SQL command is used to display all the databases present on the server?
- (a) Show Databases (b) Show tables
(c) Create tables (d) Display tables
- (v) What are aggregate functions ?
- (vi) In SQL, while applying condition on a group, instead of WHERE clause clause is used.
- (vii) command displays list of databases available in the current server.

Q.(3) Answer any 6 questions out of the given 7 questions

(6 x 1 = 6)

- (i) The information about entities in the real world is stored in a format within a database.
- (ii) Name any two aggregate functions used in SQL?
- (iii) Consider the table, Vehicle given below:

Table: VEHICLE

MID	NAME	BRAND	CAPACITY	COLOR
H101	I20	HYUNDAI	5	WHITE
M012	XUV500	MAHINDRA	5	BLUE
T107	INNOVA	TOYOTA	7	SILVER
H131	VERNA	HYUNDAI	5	BLUE
M010	CELERIO	MARUTI	5	RED
R100	DUSTER	RENAULT	7	WHITE

Identify the degree and cardinality of the table Vehicle.

- (iv) Write two examples of online website which provides online courses?
- (v) Consider the following tables : ORDERS and PRODUCTS

Table : ORDERS

ORDERNO	DATE	ID	QTY
1001	12-01-2022	P001	180
1002	31-12-2022	P002	175

1003	20-01-2023	P001	125
1004	25-12-2023	P003	190
1005	20-11-2023	P002	155
1006	15-11-2022	P001	130

Table : PRODUCTS

ID	PNAME	PRICE
P001	PEN	50
P002	NOTEBOOK	120
P003	PENCIL	20

Identify the Primary key and Foreign key of the table ORDERS.

- (vi) What kind of online courses does Khan Academy provide?
- (a) Free (b) Paid
(c) Mobile wallets (d) Internet banking
- (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

Q.(4) Answer any 5 questions out of the given 6 questions.

(5 x 1 = 5)

- (i) Unit testing, system testing, and acceptance testing are all different stages of _____:
- (a) Frontend development (b) Backend development
(c) Integration (d) Testing
- (ii) During which stage of web application development is the layout and user interface planned and prepared?
- (a) Requirement Definition (b) Implementation
(c) Design (d) Testing
- (iii) NICNET – A national satellite based computer network in India was launched in the year :
- (a) 1986 (b) 1987 (c) 1990 (d) 1992
- (iv) **State True or False :**
Applying promo code or discounts is one of the steps of online shopping.
- (v) 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
- (vi) Which Java statement is used to stop a loop before it finishes all its iterations?
- (a) break (b) exit (c) continue (d) stop

Q.(5) Answer any 5 questions out of the given 6 questions

(5 x 1 = 5)

- (i) **State True or False :**
A class cannot be declared as Private in Java.
- (ii) What is the use of the main() method in a Java program?
- (iii) The result of the Java expression below is a
(5>3) && (8<9)
- (iv) Differentiate between the following two java statements:
char Alpha= "A"; //Statement #1
String Name= "Ajay"; //Statement #2
- (v) 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.
- (vi) A Java compiler instead of translating Java code to machine language code, translates it into

Q.(6) Answer any 5 questions out of the given 6 questions

(5 x 1 = 5)

- (i) What is the main purpose of an if statement in Java?
 - (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
- (ii) The wrapper class of the primitive type int in Java is
- (iii) Which method / function is used to concatenate two strings in Java ?
- (iv) What is the result of the following code snippet ?
 String str = “Hello”;
 System.out.println(str.indexOf('l'));
 (a) 1 (b) 2 (c) 3 (d) -1
- (v) Why should variables be initialized before using them in Java?
 - (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
- (vi) What property of a table is avoided with the use of primary key ?
 - (a) Data inconsistency (b) Data privacy breach
 - (c) Data redundancy (d) Online data search

SECTION B: SUBJECTIVE TYPE QUESTIONS

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

(3 x 2 = 6)

Answer each question in 20-30 words.

- Q. (7)** Write the stages of Active Listening.
- Q. (8)** Explain SMART goal.
- Q. (9)** How can you insert an image in a slide in Impress?
- Q. (10)** Explain any two qualities of an entrepreneur.
- Q. (11)** Write two benefit of Green Jobs.

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

(3 x 2 = 6)

- Q.(12)** Name and explain four database operations.
- Q.(13)** Take the below table as an example. (Table Name : Employee)

Employee_num	HRA	DA	Gross	PF Contribution
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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 Contribution for employees whose DA is 7000 or more.
- Q.(14)** Give the output of the following code segment of Java-
 int Num=4;

```

int Fact=1;
for (int i=1;i<=Num;i++)
{
Fact*=i;
System.out.println(Fact);
}

```

Q.(15) Rewrite the following code after correcting the syntax errors, underline each correction made:

```

int num= = 1;
while (num <= 5);
{
System.out.print("Square of " + num);
System.out.println(" = " , num*num);
Num+=1;
}

```

Q.(16) Mention and explain any two areas where DBMS and programming are used.

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

(2 x 3 = 6)

Q.(17) A school has a database called Student. It has columns such as Roll num, Name, Father's name, Marks in Pre-Final, Marks in Final. Describe the table and its data types.

Q.(18) Complete the code in JAVA using loop to print "Yes" 5 times:

```

_____ (int i=0; i<5; _____ )
{
    _____ ("Yes");
}

```

Q.(19) What is the way in which DBMS and programming is useful in the application of banking, e-commerce and payroll management systems ?

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

(3 x 4 = 12)

Q.(20) Write short notes on the following :

(a) Primary key (b) Unique key (c) Foreign key (d) Candidate key

Q.(21) Describe the following online course websites :

(a) Coursera (b) Udacity (c) Khan academy (d) Udemy

Q.(22) Write a program in Java to take two strings as input and report their lengths.

Q.(23) Explain Exception handling?

Q.(24) Write a program in Java to take compare two numbers using control statements.

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