



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-5)	Time: 3 hrs.
Date: 07-11-2025	Max Marks: 60
Admission No.:	Roll No. :

General Instructions:

(c) use password

- 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 OUESTIONS (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	x 1 = 4
(i) Speaking, listening, reading and v	vriting are the parts of, which h	elp us
to understand others.		-
(a) Communication	(b) Active listening	
(c) Interview	(d) None of these	
(ii) Ravi has feelings of emptiness,	abandonment and suicide. What type of personality d	isorder
is this ?		
(a) Borderline	(b) Dependent	
(c) Avoidant	(d) Obsessive	
(iii) Self management is also called		
(a) Self Control	(b) Personality	
(c) Stress	(d) None of these	
(iv) Mr Gupta has a spreadsheet with	n a list of 500 items in his shop. A customer comes ar	ıd asks
for a particular item. How shoul	d he arrange the data so that he can find that item fast	t ?
Whst would Mr Gupta do? He v	will:	
(a) Apply filter	(b) sort the data	

(d) format data

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

 $(5 \times 1 = 5)$

- (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) What is Data?
- (iii) 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
- (iv) command displays list of databases available in the current server.
 - (a) Show Databases

(b) Show tables

(c) Create tables

- (d) Display tables
- (v) What are aggregate functions?
- (vii) command displays list of databases available in the current server.

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

 $(6 \times 1 = 6)$

- (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) What is the full form of IRCTC?

(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.

 $(5 \times 1 = 5)$

- (i) Unit, integration and user acceptance are all forms of :
 - (a) Frontend development

(b) Backend development

(c) Integration

- (d) Testing
- (ii) In which phase of the web application creation is design of the application created?
 - (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 statement is used to terminate a "For" loop prematurely in Java?

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

 $(5 \times 1 = 5)$

(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.

* *	e block associated bition is thrown.	with the "if" sta	atement is executed	
(vi) A Java comp		slating Java coo	de to machine langua	age code, translates it into
Q.(6) Answer any	5 questions out of	the given 6 qu	estions	$(5 \times 1 = 5)$
(a) To declar (b) To repea (c) To execu (d) To perfor (ii) The wrapper (iii) Which method (iv) What is the r String str = ' System.out.p (a) 1 (v) In java, why in (a) To ensure (b) To preve (c) To allow (d) To optime (vi) What proper (a) Data inco (c) Data redu	t a block of code use the a block of code rm arithmetic operaclass of the primition of function is use result of the follows "Hello"; brintln(str.indexOff (b) 2 is it necessary to interest the variable of the compiler to all size the performance that the variable is avoid to a table is avoid on sistency undancy	ntil a condition conditionally be ations we type int in Jacet to concatenating code snippe ('1')); itialize variable holds a specificanthe program locate the appropriate of the programided with the use (1)	is met ased on a Boolean ex ava is e two strings in Java t? (c) 3 es before usage? value throughout its priate amount of men m by reducing memo	(d) -1 lifecycle. mory for the variable ory consumption
Answer any 3 out of Answer each quest	of the given 5 ques	stions on Empl		$(3 \times 2 = 6)$
Q. (7) Explain any f Q. (8) What is Goal Q. (9) How can you Q. (10) Explain any Q. (11) Define a Great Answer any 3 out of	Setting? Explain insert an image in four qualities of a een job. Explain ar	with the help of a slide in Impronent n entrepreneur. ny two benefits	SSMART acronym. ess? of a green job.	$(3 \times 2 = 6)$
Q.(12) Name and ex	•	Ū	et speeme skins.	(S A Z - 0)
Q.(13) Take the belo	•	•	ame : Employee)	
Employee_num	HRA	DA	Gross	PF Contribution
(b) Employee_n Q.(14) Give the out int Num=4; int Fact=1;	um, HRA and Gro um, DA and PF Co	ss for all the encontribution for e	employees whose DA	A is 7000 or more.

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Fact*=i;
       System.out.println(Fact);
Q.(15) Rewrite the following code after correcting the syntax errors, underline each correction
        made:
       int number = 1;
       while (number \leq 5);
       System.out.print("Square of " + number);
       System.out.println(" = " , number*number);
       Number += 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 \times 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) Convert the following Java code from for loop to while loop without changing the logic.
       int X=4,Y=3;
       int Pow=1;
       for (int i=1; i <= Y; i++)
       Pow*=X:
       System.out.println(Pow);
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 \times 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:
                             (b) Udacity
                                                    (c) Khan academy
                                                                          (d) Udemy
       (a) Coursera
Q.(22) Write a program in Java to take two strings as input and report their lengths.
Q.(23) Write a program in Java for the following:
       (a) Print the multiplication table up to 10 for the integer entered on input.
       (b) In case the input is string, for example "abcdef", then print:
       a
       ab
       abc
       abcd
       Print only first four, or as many as the string length, if shorter than four in length.
Q.(24) Write a program in Java to take a string as input. You have to report whether the input is a
       string or a number.
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****** ALL THE BEST *******

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