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B.K. BIRLA CENTRE FOR EDUCATION



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

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

SET-01/802

 Class: XII (SUBJECT-4)
 Time: 3 hrs.

 Date: 09-12-2025
 Max Marks: 60

 Admission No.:
 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

(1)	Answer any 4 out of the gi	ven 6 questions on Employability Skills.	$(4 \times 1 = 4)$		
	A senten	ce shares straightforward information and alway	s ends with a full		
	a) Declarative sentence	b) Interrogative sentence			
C	c) Imperative sentence	d) Exclamatory sentence			
(ii)	Which of the following stat	ements is <i>incorrect</i> about physiological motives	s?		
a) They arise from bodily needs such as hunger and thirst.					
ł) Psychological motives involve achievement and affiliation.				
(c) Physiological motives pus	h behaviour to fulfil essential physical requirement	ents.		
	d) They consist of emotional	1 1			
(iii)	Samaira invests her entire e to her desired college. This	vening in solving mock tests because she wants situation reflects:	to secure admission		
	a) Intrinsic motivation	b) Extrinsic motivation			
		d) Self-management			
(iv)	reorganizes s	elected data permanently, whereas filtering only	hides unrelated		
	entries without removing th	- · · · · · · · · · · · · · · · · · · ·			

		a) Charts	b) Predefined f	unctions	
	(v)	c) Sorting Dhruv shifted all the loyal wo and job security. This shows l		urnt factory to another unit to ensur	e their safety
		a) Confidence in himself		h) Duonou gymanyisian	
			•	b) Proper supervision	
	<i>(</i> •)	c) Care for employees' well-b			1 ' 11 1
	(VI)		ong feelings and	typically ends with an exclamation	mark is called
		a/an			
		a) Declarative b)	-		
		c) Imperative d)	C		
Q.	(2)	Answer any 5 questions out	of the given 7 qı	ıestions	$(5 \times 1 = 5)$
	(i) \	Which of the following is NOT	Γ considered a re	lational operator?	
		(a) > (b) = (c) +	(d) !=		
	(ii)	Java supports a fixed number	of primitive data	types. How many are there, and w	rite any two.
(iii) Which SQL command will show all employee names that include the letter 'a' anywhere					
	` ′	Name field?	1 7		
		(a) SELECT Name FROM E	mplovee WHER	E Name LIKE "%a%":	
		* /			
	(b) SELECT Name FROM Employee WHERE Name = "%a%";(c) SELECT Name FROM Employee WHERE Name LIKE "a%";				
		(d) SELECT Name FROM En			
	(iv)		* *	fy a row in a table is known as a	
	(17)			=	•
		(a) Candidate Key	,	b) Super Key	
	()	(c) Alternate Key		d) Primary Attribute	
(v) What are aggregate functions?					
		is used.		instead of WHERE clause	
	(vii)	command	displays list of da	atabases available in the current ser	ver.
Q.		Answer any 6 questions out			$(6 \times 1 = 6)$
	(i)	Which constraint ensures that	a column canno	t have NULL values?	
	(ii)	Name any two aggregate fund	ctions used in SO	1.2	

- (ii) Name any two aggregate functions used in SQL?
- (iii) Consider the table, Cars given below:

Table: Cars

MID	NAME	BRAND	CAPACITY	COLOR
H101	I20	HYUNDAI	5	WHITE
M012	XUV500	MAHINDRA	5	BLUE
H131	VERNA	HYUNDAI	5	BLUE

Identify the degree and cardinality of the table Vehicle.

- (iv) How can users improve the safety of their passwords when making online payments?
 - a) Using personal info like birthdate
 - b) Using a mix of letters, numbers, and symbols
 - c) Writing the password on paper
 - d) Sharing the password with friends
- (v) Consider the following table: PRODUCTS

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

Identify the Primary key and Foreign key of the (vi) What kind of online courses does Khan A	
(a) Free	(b) Paid
(c) Mobile wallets	(d) Internet banking
(vii) What does the R in IRCTC stand for?	(d) internet banking
(a) Robot	(b) Rover
(c) Railway	(d) None of these
(c) Ranway	(a) Ivolic of these
Q.(4) Answer any 5 questions out of the given	6 questions. $(5 \times 1 = 5)$
(i) Adrisa wanted to book her flight to attend	an international conference on "Women and AI". She
needs to book her tickets using on online re	eservation system. Help her to follow the correct
sequence of steps to do the same.	
A. Make the payment	
B. Open the online reservation website	
C. Choose the dates of travel	
D. Browse and search for the required infor	rmation
a) B, D, C, A b) A, B, C, D	
c) A, D, C, B d) B, A, D, C	
	is used to find the average values of a numeric column:
(a) Average() (b) Avg()	· ·
(c) Mean() (d) Mid()	
	puter network in India was launched in the year:
(a) 1986 (b) 1987	(c) 1990 (d) 1992
(iv) State True or False :	
	ourchased and store them in their online shopping
basket. (True)	11 8
(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 loc	
(a) break (b) exit (c) continue	(d) stop
Q. (5) Answer any 5 questions out of the given	6 questions $(5 \times 1 = 5)$
Q. (e) This wer any e questions out of the given	$(c \ A \ I = c)$
(i) State True or False :	
Fixing of all the application bugs and fixing	g them is part of the Testing Phase of the project.
(ii) Aparna wanted to remove the table PERS	ONAL permanently from the database SCHOOL.
Write the command to help her do the same	<u>.</u>
(iii) A named constraints in a table can be easi	ily deleted or updated using the
command.	
(iv) Differentiate between the following two ja	ava 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 "i	* *
(c) The code block associated with the "i	t" statement is executed
(d) An exception is thrown.	
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(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 $(5 \times 1 = 5)$ (i) What will be the result of the following code? String s = "JAVA"; System.out.println(s.length()); (d) Error (a) 3 (b) 4 (c) 5(ii) The wrapper class of the primitive type char in Java is (iii) Which keyword is used to prevent a method from being overridden in Java? (a) static (b) final (c) private (d) protected (iv) What is the result of the following code snippet? String str = "Hello"; System.out.println(str.indexOf('1')); (d) -1(a) 1 (c) 3 (b) 2 (v) Which Java loop checks the condition **after** executing the loop body at least once? (a) for (b) while (c) do-while (d) None of these (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. $(3 \times 2 = 6)$ Answer each question in 20-30 words. **Q.** (7) What is Active Listening? **Q.** (8) Explain Positive Attitude. **Q.** (9) Differentiate between workbook and worksheet? Q. (10) Explain any two qualities of an entrepreneur. **Q.** (11) Write two ways to reduce greenhouse gases. Answer any 3 out of the given 5 questions on Subject Specific Skills. $(3 \times 2 = 6)$ **Q.** (12) What are the benefit of naming a constraint? Q. (13) Write the SQL command to create an employee table Employee num HRA DA Gross PF Contribution decimal Char(4) int int int Q. (14) Give the output of the following code segment of Javaint x = 1: while $(x \le 5)$ System.out.print(x + ""); x += 2;} **Q.** (15) Rewrite the following code after correcting the syntax errors, underline each correction made: int sum = 0: for (int i = 1; $i \le 4$; i++)

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sum = sum + i;

System.out.println(sum);Q.(16) What are comments in Java	a programs and why are they important?	
Answer any 2 out of the given 3	questions on Subject Specific Skills.	$(2 \times 3 = 6)$
Q. (17) Explain the following aggr	regate functions with examples.	
(a) SUM (b) MAX	(c) AVG	
Q. (18) Consider the following stri	ing variable :	
String str1 = "Hello";		
String str2 = "morning";		
Write the code statements in Java:	:	
(a) To convert the first letter of a st	tring variable "str1" into uppercase.	
(b) To convert combined length of	string str1 and str2.	
(c) To display str1 and str2 after jo	oining them.	
Q. (19) What is the way in which I commerce and payroll managemen	DBMS and programming is useful in the appint systems?	lication of banking, e-
Answer any 3 out of the given 5 o	questions on Subject Specific Skills.	$(3 \times 4 = 12)$
Q. (20) Write short notes on the fo	-	(1) 6
` '	ninistrator (c) Application Programmer precautions that you must take while perform	` '
- · · ·	take two strings as input and report their len	_
Q. (23) What is the use of ResultSo		8
Q. (24) Write a program in Java to	print the table of 8.	

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