



B.K. BIRLA CENTRE FOR EDUCATION



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

PRE BOARD 2 EXAM: 2025-26 INFORMATION TECHNOLOGY (802)

Class: XII (SUBJECT-5)	Time: 3 hrs.
Date: 11-12-2025	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

Q. (1) Answer any 4 out of the given 6 qu	estions on Employability Skills.	$(4 \times 1 = 4)$
(i) What are the characteristics of an idea	al message?	
(a) Clear	(b) Concise	
(c) Accurate	(d) All of these	
(ii) Mona is helping her sister to overco	me 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	
(iii) is the feeling of bei	ng overwhelmed or unable to cope with	mental or
emotional pressure.		
(a) Stress	(b) Positive attitude	
(c) Self-management	(d) Motivation	
(iv) What kind of software are Adobe Sp	oark and Keynote?	
(a) Documentation	(b) Presentation	
(c) Spreadsheet	(d) DBMS	
(v) Sayed knows what business he want	s to do but does not know what steps he	has to take to get it
running. The barrier stopping him is		
(a) Building the right team	(b) lack of plan	
(c) Risk taking	(d) None of these	

(vi) Neelima's children fall sick very often. They she do?	y have a cold and cough every month. What should
(a) Grow organic food in the kitchen garden	(b) Use air purifiers with HEPA filters
(c) Keep them inside the house all the time	(d) Paint her house with non-VOC paint
Q. (2) Answer any 5 questions out of the given 7	-
(i) The number of attributes in a relation is called	
(a) Degree	(b) Attribute
(c) Cardinality	(d) Domain
(ii) What is Database?	
(iii) The information about entities in the real wo	
(iv) What is one of the advantages of using a tab	-
(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.	etahogog available in the aument gorver
(v) command displays list of days (a) Show Databases	(b) Show tables
(c) Create tables	(d) Display tables
(vi) What is the initial step in setting up a databa	· ' · · · · · · · · · · · · · · · · · ·
(a) Executing the CREATE DATABASE of	
(b) Designing the database schema	Timula .
(c) Populating the database with data	
(d) Configuring database permissions	
(vii) Which constraint ensures that a column can	not have NULL values ?
(a) Unique	(b) Primary key
(c) Not null	(d) Foreign key
Q.(3) Answer any 6 questions out of the given 7 d	questions $(6 \times 1 = 6)$
(i) What SQL command is used to display a list of	of all databases in a database management system?
(a) Display databases;	(b) List databases;
(c). Show databases;	(d) View databases;
(ii) command deletes one or n	•
(iii) In SQL, while applying condition on a group used.	p, instead of WHERE clause clause is
(iv) Shopping online is a Task	x. It provides efficient search tools and filters that
allow customers to easily locate products.	
(v) State True or False: Applying promo code	es or discounts is one of the steps of online shopping
(vi) What kind of online courses does Khan Academ	y provide ?
(a) Free	(b) Paid
(c) Mobile wallets	(d) Internet banking
(vii) What does the R in IRCTC stand for?	
(a) Robot	(b) Rover
(c) Railway	(d) Rebel
Q. (4) Answer any 5 questions out of the given 6	questions. $(5 \times 1 = 5)$
(i) The first step in online shopping is to:	
(a) Visit the website	(b) Open your smartphone
(c) Use your debit card	(d) None of these
(ii) NICNET – A national satellite based compu	ter network in India was launched in the year:

(a) 1986	(b) 1987	(c) 1990	(d) 1992	
(iii) State Tru	ie or False :	, ,		
` '	ure and Google cloud are ex	xamples of weather fore	casting system.	
	•	•	given by other custome	ers
-	more about the quality of the			
	reservation your transaction	•		
	re secured.		to your omme reservation	
•	atement is used to terminate	a "For" loon premature	v in Java ?	
	ny 5 questions out of the g	• •	$(5 \times 1 =$	5)
	en is the condition of a "wh	-	(A I –	<i>S</i>)
	e each iteration of the loop	into resp evaluation .		
` '	each iteration of the loop			
	once before the first iteratio	n of the loop		
	once after the last iteration	-		
, ,	thod / function is used to co		Java ?	
(a) Conca		(b) add()		
(c) join()		(d) merge()		
(iii) In Java, wl	hat is the purpose of the "if"	'statement?		
, ,	clare a variable			
_	beat a block of code until a			
	ecute a block of code condit		ean expression	
· · · · · · · · · · · · · · · ·	rform arithmetic operations			
	he following is a logical op			
(a) & &		(b) ==		
(c) @	f the Iove evenession helevy	(d) +		
	of the Java expression below	V 1S a		
(5>3) &&	, ,			
(vi) State True		in Torro		
	annot be declared as Private		(5 1	5)
Q. (o) Answer al	ny 5 questions out of the g	given o questions	$(5 \times 1 =$	3)
(i) What hanne	ons if the condition specified	d in an "if" statement ev	aluates to false ?	
	ens if the condition specified	d in an "if" statement ev	aluates to false?	
(a) The p	program terminates			
(a) The p (b) The c	program terminates code block associated with t	he "if" statement is skip	ped.	
(a) The p(b) The c(c) The c	program terminates code block associated with toode block associated with t	he "if" statement is skip	ped.	
(a) The p (b) The c (c) The c (d) An ex	program terminates code block associated with toode block associated with to ception is thrown.	the "if" statement is skip the "if" statement is exec	ped. uted	
(a) The p (b) The c (c) The c (d) An ex (ii) The wrapp	program terminates code block associated with toode block associated with t	the "if" statement is skip the "if" statement is exec the int in Java is	ped. uted	
(a) The p (b) The c (c) The c (d) An ex (ii) The wrapp	program terminates code block associated with to code block associated with to ception is thrown. her class of the primitive type the process of extracting a su	the "if" statement is skip the "if" statement is exec the int in Java is	ped. uted	
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SECTION B: SUBJECTIVE TYPE QUESTIONS

Answer any 3 out of the given 5 questions on Employability Skills. Answer each question in 20-30 words.

 $(3 \times 2 = 6)$

Q. (7) Define: (a) active listening

(b) Sentence

- Q. (8) What are personality disorders? Write about 2 such personality disorders.
- Q. (9) Describe any two mathematical operators used in OpenOffice Calc.
- **Q.** (10) Rohan has a successful start-up company. According to him "Decision Making is considered to be one of the important entrepreneurial competency". Do you agree with Rohan's opinion? Justify.
- **Q.** (11) Rohit noticed that plastic waste was a major issue in his school. He initiated a campaign encouraging students to carry reusable water bottles and lunch boxes. Which green skill is Rohit promoting through his initiative? Explain.

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

 $(3 \times 2 = 6)$

- Q. (12) What is RDBMS? Write one advantage and one disadvantage of DBMS approach.
- Q. (13) Write SQL command to create the following table : (Table Name : Gadget)

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

- **Q.** (14) What is the difference between while and do-while loop in Java? Explain with example.
- **Q.** (15) What are comments in Java programs and why are they important?
- Q. (16) Think and write about the database tables required for the following projects:
 - (a) Airlines

(b) Hospital management system

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

 $(2 \times 3 = 6)$

- **Q.** (17) Explain the following aggregate functions with examples.
 - (a) SUM
- (b) MAX
- (c) AVG
- **Q.** (18) Consider the following string variable:

String str1 = "Hello";

String str2 = "morning";

Write the code statements in Java:

- (a) To convert the first letter of a string variable "str1" into uppercase.
- (b) To convert combined length of string str1 and str2.
- (c) To display str1 and str2 after joining them.
- **Q.** (19) What is the way in which DBMS and programming is useful in the application of banking, e-commerce and payroll management systems?

- Q. (20) What are the types of users in DBMS? Explain in detail.
- **Q.** (21) Write and explain any four precautions that you must take while performing online transactions.
- Q. (22) What are different types of loops used in Java? Explain each with example.
- Q.(23) Write a program in Java to take a string as input. You have to report whether the input is a string or a number.
- **Q.** (24) Write a Java program to check whether a number entered by the user is even or odd. Also explain how the modulus (%) operator works in your program.

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