CBSE | DEPARTMENT OF SKILL EDUCATION
INFORMATION TECHNOLOGY (SUBJECT CODE - 802)
Blue-print for Sample Question Paper for Class XII (Session 2024-2025)

Max. Time: 3 Hours   **Max. Marks: 60**

PART A - EMPLOYABILITY SKILLS (10 MARKS):

UNIT NO.	NAME OF THE UNIT	OBJECTIVE TYPE QUESTIONS	SHORT ANSWER TYPE QUESTIONS	TOTAL QUESTIONS
		1 MARK EACH	**2 MARKS EACH**	
1.	Communication Skills- IV	1	1	2
2.	Self-Management Skills- IV	2	1	3
3.	ICT Skills- IV	1	1	2
4.	Entrepreneurial Skills- IV	1	1	2
5.	Green Skills- IV	1	1	2
	TOTAL QUESTIONS	**6**	**5**	**11**
	NO. OF QUESTIONS TO BE ANSWERED	**Any 4**	**Any 3**	**07**
	TOTAL MARKS	**1 x 4 = 4**	**2 x 3 = 6**	**10 MARKS**

PART B - SUBJECT-SPECIFIC SKILLS (50 MARKS):

UNIT NO.	NAME OF THE UNIT	OBJECTIVE TYPE QUESTIONS	SHORT ANS. TYPE QUES.- I	SHORT ANS. TYPE QUES.- II	DESCRIPTIVE / LONG ANS. TYPE QUESTIONS	TOTAL QUESTIONS
		1 MARK EACH	**2 MARKS EACH**	**3 MARKS EACH**	**4 MARKS EACH**	
1	Database Concepts	10	2	1	1	14
2	Operating Web Based Applications	9	0	0	1	10
3	Fundamentals of Java Programming	12	2	1	3	18
4	Work Integrated Learning IT	1	1	1	0	3
	TOTAL QUESTIONS	**32**	**5**	**3**	**4**	**45**
	NO. OF QUESTIONS TO BE ANSWERED	**26**	**Any 3**	**Any 2**	**Any 3**	34
	TOTAL MARKS	**1 x 26= 26**	**2 x 3 = 6**	**3 x 2 = 6**	**4 x 3 = 12**	**50 MARKS**

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Sample Question Paper for Class XII (Session 2024-2025)

Max. Time: 3 Hours   **Max. Marks: 60**

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 contains 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 No	Question	Source Material (NCERT/PSSCIVE / CBSE Study Material)	Unit/ Chap. No.	Page no. of source material	Marks
Q.1	**Answer any 4 out of the given 6 questions on Employability Skills (1 x 4 = 4 marks)**				
i.	a) Declarative sentences	NCERT	Unit1	Pg 19	1
ii.	d) Physiological motivation are made up of emotional, behavioural and mental set of characteristics.	NCERT	Unit 2	Pg 24	1
iii.	a) External motivation	NCERT	Unit 2	Pg 25	1
iv.	a) Sorting	NCERT	Unit 3	Pg 58	1
v.	c) Concern for Employees Welfare	NCERT	Unit 5	Pg 113	1
vi.	a) Social Entrepreneurs	NCERT	Unit 4	Pg 84	1
Q.2	**Answer any 5 out of the given 7 questions (1 x 5 = 5 marks)**				
i.	b) =	CBSE Study Material	Unit 3	Pg 95	1
ii.	In all, Java supports eight primitive data types. byte, short, int, long, float, double, char, boolean.	CBSE Study Material	Unit 3	Pg 93	1
iii.	c) SELECT Name FROM Employee where Name in ("a", "%a");	CBSE Study Material	Unit 1	Pg 38	1
iv.	a) Superkey	CBSE Study Material	Unit 1	Pg 7	1
v.	A method is a group of statements written to perform a specific task. The method body is enclosed within a pair of curly braces and contains the statements that the method will execute. Main is a special method that every Java application must have. When you run a program, the statements in the main method are the first to be executed.	CBSE Study Material	Unit 3	Pg 111	1
vi.	web-based application	CBSE Study Material	Unit 2	Pg 48	1
vii.	The web-based online applications can be broadly categorized into applications that require financial online transactions and applications that provide information and allow interaction via filling forms, posting query, viewing information, sending email or chatting.	CBSE Study Material	Unit 2	Pg 49	1

Q.3	**Answer any 6 out of the given 7 questions (1 x 6 = 6 marks)**				
i.	india.gov.in (The National Portal of India) : This is the National Portal of India, which provides a single window access to information and services being provided by the various Indian Government entities	CBSE Study Material	Unit 2	Pg 57	1
ii.	You can write comments in a Java program in the following two ways: • Beginning a comment line with two consecutive forward slashes (//) • Writing the comment between the symbols /* and */	CBSE Study Material	Unit 3	Pg 85	1
iii.	Degree- 5, Cardinality= 6	CBSE Study Material	Unit 1	Pg 5	1
iv.	Some actions that can be taken to make the passwords safer are as follows: a) Make a password complex, like mix case, use numbers and special characters. This decreases ability of automated attacks by trying different character combinations. b) Be cautious not to leave passwords around and do not share them with friends. c) Never use names of near and dear ones as passwords.	CBSE Study Material	Unit 1	Pg 4	1
v.	In Table ORDERS: Primary Key is **ORDERNO** and Foreign key is **ID**	CBSE Study Material	Unit 1	Pg 7	1
vi.	c) Purchase of movie tickets	CBSE Study Material	Unit 2	Pg 56	1
vii.	D) **break**	CBSE Study Material	Unit 3	Pg 100	1
Q.4	**Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)**				
i.	a) B, D, C, A	CBSE Study Material	Unit 2	Pg 48	1
ii.	c)AVG()	CBSE Study Material	Unit 2	Pg 42	1
iii.	b) Once the goods are purchased they cannot be returned or exchanged	CBSE Study Material	Unit 2	Pg 59	1
iv.	TRUE	CBSE Study Material	Unit 3	Pg 119	1
v.	d) **SELECT MAX(FEE), MIN(FEE) FROM COACH;**	CBSE Study Material	Unit 2	Pg 42	1
vi.	true	CBSE Study Material	Unit 3	Pg 95	1

Q.5	**Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)**				
i.	TRUE	CBSE Study Material	Unit 2	Page 71	1
ii.	**USE SCHOOL** **DROP TABLE PERSONAL**	CBSE Study Material	Unit 1	Pg 28	1
iii.	Alter Table	CBSE Study Material	Unit 1	Pg 29	1
iv.	Statement #1. A variable of the primitive data type char can be used to store a single character. To assign a value to a char variable we enclose the character between single quotes. char Alpha = 'A'; Statement #2 To store more than one character, we use the String class in Java. To assign a text value to a String variable we enclose the text between double quotes. For example, String Name = "Manish"	CBSE Study Material	Unit 3	Pg 94	1
v.	b) Constructor	CBSE Study Material	Unit 3	Pg 115	1
vi.	Java Bytecode	CBSE Study Material	Unit 3	Pg 81	1
Q.6	**Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)**				
i.	c) **int Num==10;**	CBSE Study Material	Unit 3	Pg 95	1
ii.	Modulus %	CBSE Study Material	Unit 3	Pg 95	1
iii.	Web-based	CBSE Study Material	Unit 2	Pg 48	1
iv.	Constraint NOT NULL should be used to ensure data entry in a field	CBSE Study Material	Unit 1	Pg 8	1
v.	b) **SELECT**	CBSE Study Material	Unit 1	Pg 31	1
vi.	E-governance empowers the citizens socially and economically, and enhances their lives by providing them with quality information and better services. It enables citizens to access information directly, without paying any money to a middleman or a tout. It ushers transparency in the system.	CBSE Study Material	Unit 2	Page 56	1

SECTION B: SUBJECTIVE TYPE QUESTIONS

Q No	Question	Source Material (NCERT/PSS CIVE / CBSE Study Material)	Unit/ Chap. No.	Page no. of source material	Marks
Answer any 3 out of the given 5 questions on Employability Skills (2 x 3 = 6 marks) Answer each question in 20 – 30 words.
Q.7	Self-motivation is important because - It increases an individual's energy and activity. - It directs an individual towards specific goals. - It results in initiation and persistence of specific activities - It affects cognitive processes and learning strategies used for completing similar tasks.	NCERT	Unit 2	Page 23	2
Q.8	Active listening is an art, which comprises both a desire to comprehend, as well as, offer support and empathy to the speaker. It can affect your job effectiveness, the quality of your relationship with others, and hence, your overall well-being. Active listening allows you to understand the problems and collaborate to develop solutions. The various factors that affect active listening are as follows: Eye contact Gestures Avoiding distractions Giving feedback	NCERT	Unit 1	Pg 2	2
Q.9	Well, yes, there are toxins present in our environment and environment including our homes also. Hence, the role of green jobs in our homes is to make them toxin free so that we have a healthy life. Toxins may be present in our homes in many ways such as – refrigerators releasing CFCs, cleaning and washing products, cosmetics, upholstery fabrics, rugs, mattresses, paint used on the walls, chemicals used to polish the floors, fragrances, some kind of clothes that uses chemicals, use of RO and Microwaves in our kitchens etc. So, in order to ensure that our homes are safe from toxins and healthy places to breathe, people with green collar jobs help us maintain a healthy environment.	NCERT	Unit 5	Pg 111	2
Q.10	Once you have entered data and applied relevant formulas in a worksheet, you can	NCERT	Unit 3	Pg 41	2

	arrange the data in ascending or descending order. This is called sorting of data. Sorting on numerical and textual values is one of the main features of any spreadsheet software. Yes data can be sorted on more than one column.				
Q.11	The following are some of the qualities of a successful entrepreneur: Initiative Willingness to take risks Ability to learn from experience Motivation Self-confidence Hard work Decision making ability	NCERT	Unit 4	Pg 81	2
Answer any 3 out of the given 5 questions (2 x 3 = 6 marks)					
Q.12	1 2 6 24	CBSE Study Material	Unit 3	Page 106	2
Q.13	a) `ALTER TABLE STOCKDATA MODIFY COLUMN (VALUE FLOAT);` b) `UPDATE STOCKDATA SET VALUE=VALUE*1.25;`	CBSE Study Material	Unit 1	Pg 29	2
Q.14	Usuages of DBMS in Education are: • For storing information such as student details, marks and result. • For storing information about faculty and staff members. For storing details about school/college such as infrastructure details, department and offered course details.	CBSE Study Material	Unit 4	Pg 144	2
Q.15	The table STUDENT should contain: AdmNo Char(5) Name varchar(30) DOB Date ContactNo int(10) Class int(2) Sec char(1) Percentage decimal(5,2)	CBSE Study Material	Unit 1	Pg 29	2

Q.16	`int number = 1;`
	`while (number <= 5)`
	`{`
	`    System.out.print("Square of " + number);`
	`    System.out.println(" = " + number*number);`
	`    number+=1;`
	
	`}`
		CBSE Study Material	Unit 3	Page 105	2

Answer any 2 out of the given 3 questions (3 x 2 = 6 marks)					

Q.17	`int X=4,Y=3;`
	`int Pow=1;`
	`int i=1;`
	`while(i<=Y)`
		CBSE Study Material	Unit 1	Pg 29	3

	``
	    {
	        Pow*=X;
	        i++;
	    }
	    System.out.println(Pow);
	``				

Q.18	a) Referential integrity is a term used in database design to describe the relationship between two tables. Referential integrity is the logical dependency of a foreign key on a primary key.
	b) Consider the table TEACHER and answer the questions:
	   i) `SELECT count(TNAME), DEPT FROM TEACHER GROUP BY DEPT;`
	   ii) `SELECT min(PAY) FROM TEACHER WHERE DOA IS BETWEEN "2010-01-01" AND "2010-12-31";`
		CBSE Study Material	Unit 1
			
			Unit 1
				Pg 9
				
				Pg 31
					1+2

Q.19	DROP is a DDL command and DELETE is a DML command. DROP TABLE is used to remove a table from the database. DELETE is used to delete a row(s) from a table of database. Example: DROP TABLE temp; The above commands deletes all rows and even the structure of the table from the database DELETE FROM Student WHERE Rno>=18; The above command deletes all the rows from the table Student whose Rno is greater than and equal to 18 DELETE FROM STUDENT; The above command is used to delete all the records from the table Student	CBSE Study Material	Unit 1	Pg 28	3
Answer any 3 out of the given 5 questions (4 x 3 = 12 marks)					

Q.20	a) Welcome to Java Session
	   15
	   Welcome 2 Java
	b) OOP- Object Oriented Programming
		CBSE Study Material	Unit 3	Pg 113	3+1

Q.21	a) coursera.org and edx.org provide high quality online courses for free, in collaboration with various universities across the globe.
	b) A project is a task that is undertaken to create a unique product, service, or result.
	c) The process of development of web based applications is broadly categorized in four phases. During the development process, one needs to follow the following four main phases of development:
	   1) Requirements Definition Phase
	   2) Design Phase
	   3) Implementation Phase
	   4) Testing Phase
		CBSE Study Material	Unit 2	Pg 66	1+1+2

Q.22	a) i) MyMethod ii) 49 b) Java provides an exception handling mechanism so that a program is able to deal with exceptions, and continue executing or terminate gracefully. The basic idea in exception handling is to Denote an exception block - • Identify areas in the code where errors can occur • Catch the exception - Receive the error information • Handle the exception - Take corrective action to recover from the error Java provides the following keywords to handle an exception: • try - A try block surrounds the part of the code that can generate exception(s). • catch – The catch blocks follow a try block. A catch block contains the exception handler - specific code that is executed when the exception occurs. Multiple catch blocks following a try block can handle different types of exceptions.	CBSE Study Material	Unit 3	Pg 127	2+2

Q.23	a)Arrays are variables that can hold more than one value, they can hold a list of values of the same type. One way to declare an array is :
	`marks = new double[5];`
	It can also be declared in another way:
	`double[] marks = new double[5];`
	b)Write Java code for the following:
	i)`double[] Marks = {78,65,85,91,82};`
	ii)`for (int i = 0; i< 5; i++)`
	`        System.out.println(Marks[i]);`
	iii)`System.out.println((Marks[0] +`
	`Marks[1]+ Marks[2]+ Marks[3]`
	`+Marks[4])/5);`
		CBSE Study Material	Unit 3	Pg 118	1+3

Q.24	a) `Select count(Name),TName`
	`   from Train, Passenger`
	`   where Train.TID=Passenger.TID`
	`   group by TName`
	b) `Insert into Train values`
	`   (12471, "Garib Rath", "New Delhi",`
	`   "Mumbai", 1105)`
	c) `Select TName, Name, Boarding`
	`   from Train,Passenger`
	`   where Train.TID=Passenger.TID`
	d) `Select * from Train`
	`   where cost between 3000 and 5000`
		CBSE Study Material	Unit 1	Pg 31	4