

# **CBSE | DEPARTMENT OF SKILL EDUCATION**

## **INFORMATION TECHNOLOGY (SUBJECT CODE - 802)**

### **Marking Scheme for Sample Question Paper for Class XII (Session 2025 - 2026)**

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**

<b>QNo</b>	<b>Question</b>	<b>Source Material (NCERT/ PSSCIVE /CBSE Study Material)</b>	<b>Unit/ Chap. No.</b>	<b>Page no. of source material</b>	<b>Marks</b>
<b>Q.1</b>	<b>Answer any 4 out of the given 6 questions (1x4 = 4 marks)</b>				
i.	d) Exclamatory sentences	NCERT	Unit 1	Pg 19	1
ii.	c) It focuses on the outcome or reward associated with the activity	NCERT	Unit 2	Pg 24	1
iii.	a) Narcissistic personality disorder	NCERT	Unit 2	Pg 36	1
iv.	b) Sorting	NCERT	Unit 3	Pg 58	1
v.	b) Coming up with an innovative solution.	NCERT	Unit 5	Pg 81	1
vi.	b) Sell it for recycling or exchange	NCERT	Unit 4	Pg 120	1
<b>Q.2</b>	<b>Answer any 5 out of the given 7 questions (1x5 = 5marks)</b>				
i.	8	CBSE Study Material	Unit 3	Pg 96	1
ii.	int, double	CBSE Study Material	Unit 3	Pg 93	1
iii.	b) Count of employees in each department	CBSE Study Material	Unit 1	Pg 43	1
iv.	c) NOT NULL	CBSE Study Material	Unit 1	Pg 22	1
v.	d) Cheque Payment	CBSE Study Material	Unit 2	Pg 61	1
vi.	c) shopping cart	CBSE Study Material	Unit 2	Pg 60	1
vii.	b) try, catch	CBSE Study Material	Unit 3	Pg 128	1

Q.3	<b>Answer any 6 out of the given 7 questions (1x6= 6 marks)</b>				
i.	National Informatics Centre	CBSE Study Material	Unit 2	Pg 57	1
ii.	a) W	CBSE Study Material	Unit 3	Pg 125	1
iii.	SELECT Name, Salary FROM EMPLOYEE WHERE Dept = 'IT';	CBSE Study Material	Unit 1	Pg 31	1
iv.	b) Using a mix of letters, numbers, and symbols	CBSE Study Material	Unit 2	Pg 50	1
v.	Primary Key: <b>StudentID</b> in Student Table Foreign Key: <b>DeptID</b> in Student Table	CBSE Study Material	Unit 1	Pg 8	1
vi.	a) Consumers can compare prices easily online	CBSE Study Material	Unit 2	Pg 49	1
vii.	b) Each case must end with a break statement, otherwise execution may fall through.	CBSE Study Material	Unit 3	Pg 100	1
Q.4	<b>Answer any 5 out of the given 6 questions (1x5 = 5 marks)</b>				
i.	c) Convenience and 24/7 availability	CBSE Study Material	Unit 2	Pg 48	1
ii.	b) A special type of method used to initialize objects	CBSE Study Material	Unit 3	Pg 115	1
iii.	a) String name = "John";	CBSE Study Material	Unit 3	Pg 94	1
iv.	FALSE	CBSE Study Material	Unit 2	Pg 59	1
v.	a) Numeric values	CBSE Study Material	Unit 1	Pg 42	1
vi.	a) Data about data	CBSE Study Material	Unit 1	Pg 3	1
Q.5	<b>Answer any 5 out of the given 6 questions (1x5 = 5 marks)</b>				
i.	c) Checking technical and economic feasibility of the project	CBSE Study Material	Unit 2	Pg 70	1
ii.	b) Degree	CBSE Study Material	Unit 1	Pg 5	1
iii.	SHOW DATABASES;	CBSE Study Material	Unit 1	Pg 20	1
iv.	<b>System.out.print()</b> <ul style="list-style-type: none"> <li>• Prints the text on the console.</li> <li>• Does not move the cursor to the next line.</li> <li>• Next output will appear on the same line.</li> </ul> <b>System.out.println()</b> <ul style="list-style-type: none"> <li>• Prints the text on the console.</li> <li>• Moves the cursor to the next line after printing.</li> </ul>	CBSE Study Material	Unit 3	Pg 88	1

	<ul style="list-style-type: none"> <li>• Next output will appear on a new line.</li> </ul>				
v.	a) void methodName() { /* code */ }	CBSE Study Material	Unit 3	Pg 111	1
vi.	Java Virtual Machine (JVM)	CBSE Study Material	Unit 3	Pg 81	1
<b>Q.6</b>	<b>Answer any 5 out of the given 6 questions (1x5=5marks)</b>				
i.	b) total#value	CBSE Study Material	Unit 3	Pg 94	1
ii.	1	CBSE Study Material	Unit 3	Pg 95	1
iii.	b) To achieve project objectives within a defined time frame using skills and techniques	CBSE Study Material	Unit 2	Pg 69	1
iv.	c) HAVING	CBSE Study Material	Unit 1	Pg 45	1
v.	c) DROP	CBSE Study Material	Unit 1	Pg 28	1
vi.	b) Storing information about customers, call records, bills, and subscription plans	CBSE Study Material	Unit 4	Pg 145	1

### **SECTION B: SUBJECTIVE TYPE QUESTIONS**

<b>Q No</b>	<b>Question</b>	<b>Source Material (NCERT/PSS CIVC/ CBSE Study Material)</b>	<b>Unit/ Chap. No.</b>	<b>Page no. of source material</b>	<b>Marks</b>
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**Answer any 3 out of the given 5 questions on Employability Skills (2x3=6 marks). Answer each question in 20 – 30 words.**

Q.7	Active listening ensures effective communication by allowing the listener to fully understand the speaker's message, respond appropriately, and build trust and rapport.	NCERT	Unit 1	Pg4	2
Q.8	Anita demonstrated self-management by setting clear goals and eliminating distractions, showing control over her environment and improving focus to achieve better results.	NCERT	Unit 2	Pg29	2
Q.9	Ravi is promoting the green skill of sustainable practices by encouraging reuse and reduction of plastic waste in his school.	NCERT	Unit 5	Pg119	2
Q.10	1. Helps organize content visually. 2. Facilitates easy sharing and presentation of information.	NCERT	Unit 3	Pg63	2

Q.11	Anu performed entrepreneurial functions of identifying a market need and organizing resources to deliver a solution, demonstrating opportunity recognition and resource mobilization.	NCERT	Unit 4	Pg85	2
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**Answer any 3 out of the given 5 questions (2x3 = 6 marks)**

Q.12	Output: 9 4 1	CBSE study Material	Unit 3	Pg 106	2
Q.13	Candidate Key: A minimal set of columns that can uniquely identify a record. Example: In EMPLOYEE Table, EmpID is a candidate key.	CBSE Study Material	Unit 1	Pg 8	2
Q.14	Program-Data Independence means that changes in data structure do not require changes in application programs. It is achieved using a DBMS to separate data and application logic.	CBSE Study Material	Unit 1	Pg 3	2
Q.15	CATEGORY, PRODUCT, CUSTOMER, SELLER, WISH_LIST, ORDER, SHIPMENT, PAYMENT (any four)	CBSE Study Material	Unit 4	Pg147	2

**Answer any 2 out of the given 3 questions (3x2 = 6 marks)**

Q.17	<p>a) The method calculateArea() calculates and returns the area of the rectangle by multiplying its length and width.</p> <p>b) The object of the class is created using:</p> <pre>Rectangle r1 = new Rectangle();</pre> <p>c) Area: 50</p>	CBSE Study Material	Unit 3	Pg 112	3
Q.18	<p>Products can be displayed based on:</p> <ol style="list-style-type: none"> <li>Popularity: Show the most viewed or purchased products first. Database should store view count or purchase count.</li> <li>Price: Show products from low to high or high to low. Database should store price of each product.</li> <li>Ratings/Reviews: Show highest-rated products first. Database should store customer ratings or review scores.</li> </ol>	CBSE Study Material	Unit 4	Pg 151	3

Q.19	<p>Advantages of using a DBMS:</p> <ol style="list-style-type: none"> <li>1. Reduction in Redundancy: Central storage avoids data repetition and reduces storage costs.</li> <li>2. Improved Consistency: Single copy of data reduces inconsistencies.</li> <li>3. Improved Availability: Information can be shared among multiple users.</li> <li>4. Improved Security: Access can be restricted using passwords and user rights.</li> <li>5. User Friendly: Easy to access, modify, and delete data without relying on specialists.</li> </ol> <p>(Any 3)</p>	CBSE Study Material	Unit 1	Pg 4	3
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**Answer any 3 out of the given 5 questions (4x3 = 12 marks)**

Q.20	<pre>i. String lowerStr = str.toLowerCase(); System.out.println("Lowercase: " + lowerStr);  ii. int length = lowerStr.length(); System.out.println("Length: " + length); iii. String appendedStr = lowerStr + " rocks"; System.out.println("Appended: " + appendedStr);  iv. String replacedStr = appendedStr.replace("java", "Python"); System.out.println("Replaced: " + replacedStr);</pre>	CBSE Study Material	Unit 3	Pg125	4
Q.21	<p>Four main phases in a web application project:</p> <ol style="list-style-type: none"> <li>1. Requirements Definition Phase: Identify the problem, determine project feasibility, define the scope, list features, set goals, and recognize limitations.</li> <li>2. Design Phase: Plan the structure and layout of the application, including user interface, database design, and system architecture.</li> <li>3. Implementation Phase: Write the code, integrate components, and build the application according to the design.</li> <li>4. Testing Phase: Test the application for errors, bugs, and usability issues; ensure it meets requirements before deployment.</li> </ol>	CBSE Study Material	Unit 2	Pg 70	4

Q.22	<p>A multithreaded program is one that can perform multiple tasks concurrently so that there is optimal utilization of the computer's resources. A multithreaded program consists of two or more parts called threads each of which can execute a different task independently at the same time.</p> <p>In Java, threads can be created in two ways</p> <ol style="list-style-type: none"> <li>1. By extending the Thread class</li> <li>2. By implementing the Runnable interface</li> </ol>	CBSE Study Material	Unit 3	Pg138	2+2
Q.23	<p>a) Arrays store multiple values of the same type.</p> <p>Declaration: String[] Names = new String[5];</p> <p>Initialization: String[] Names = {"Amit", "Rina", "Anil", "Asha", "Ravi"};</p> <p>b)</p> <p>i) String[] Names = {"Amit", "Rina", "Anil", "Asha", "Ravi"};</p> <p>ii)  <code>int i = 0;  System.out.println("Names in the array:")  while (i &lt; Names.length) {      System.out.println(Names[i]);      i++;  }</code></p> <p>c) In this case an Array index out of bounds error occurs and the program terminates unexpectedly with an error message</p>	CBSE Study Material	Unit 3	Pg108	1+2+1
Q.24	<p>a) SELECT MID, COUNT(AID) FROM ACTOR GROUP BY MID;</p> <p>b) INSERT INTO MOVIE VALUES ('M04', '3 Idiots', 'Comedy', 200000);</p> <p>c) SELECT M.MName, A.ActorName, M.Genre FROM MOVIE M JOIN ACTOR A ON M.MID = A.MID;</p> <p>d) SELECT * FROM MOVIE WHERE Budget &gt; 200000;</p>	CBSE Study Material	Unit 1	Pg 31	4