CBSE | DEPARTMENT OF SKILL DUCATION

INFORMATION TECHNOLOGY (SUBJECT CODE - 802)

Marking Scheme for Sample Question Paper for Class XII (Session 2026 - 2027)

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

QNo	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 (1x4 = 4 marks)**				
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
Q.2	**Answer any 5 out of the given 7 questions (1x5 = 5marks)**				
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	**Answer any 6 out of the given 7 questions (1x6= 6 marks)**				
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: **StudentID** in Student Table Foreign Key**: DeptID** 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	**Answer any 5 out of the given 6 questions (1x5 = 5 marks)**				
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	**Answer any 5 out of the given 6 questions (1x5 = 5 marks)**				
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.	**System.out.print()** • Prints the text on the console. • Does not move the cursor to the next line. • Next output will appear on the same line**.** **System.out.println()** • Prints the text on the console. • Moves the cursor to the next line after printing.	CBSE Study Material	Unit 3	Pg 88	1

	• Next output will appear on a new line.				
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
Q.6	**Answerany5outofthe given6questions(1x5=5marks)**				
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

Q No	Question	Source Material (NCERT/PSSCIVE/ CBSE Study Material)	Unit/ Chap. No.	Page no. of source material	Marks
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
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
Q.16	Comments in Java start with // or /* */. They help document code, making it easier to understand and maintain.	CBSE Study Material	Unit 3	Page 85	2
Answer any 2 out of the given 3 questions (3x2 = 6 marks)					
Q.17	**a)** The method calculateArea() calculates and returns the area of the rectangle by multiplying its length and width. **b)** The object of the class is created using: `Rectangle r1 = new Rectangle();` **c) Area: 50**	CBSE Study Material	Unit 3	Pg 112	3
Q.18	Products can be displayed based on: 1. Popularity: Show the most viewed or purchased products first. Database should store view count or purchase count. 2. Price: Show products from low to high or high to low. Database should store price of each product. 3. Ratings/Reviews: Show highest-rated products first. Database should store customer ratings or review scores.	CBSE Study Material	Unit 4	Pg 151	3

Q.19	Advantages of using a DBMS: 1. Reduction in Redundancy: Central storage avoids data repetition and reduces storage costs. 2. Improved Consistency: Single copy of data reduces inconsistencies. 3. Improved Availability: Information can be shared among multiple users. 4. Improved Security: Access can be restricted using passwords and user rights. 5. User Friendly: Easy to access, modify, and delete data without relying on specialists. (Any 3)	CBSE Study Material	Unit 1	Pg 4	3
Answer any 3 out of the given 5 questions (4x3 = 12 marks)					
Q.20	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);	CBSE Study Material	Unit 3	Pg125	4
Q.21	Four main phases in a web application project: **1.** Requirements Definition Phase: Identify the problem, determine project feasibility, define the scope, list features, set goals, and recognize limitations. **2.** Design Phase: Plan the structure and layout of the application, including user interface, database design, and system architecture. **3.** Implementation Phase: Write the code, integrate components, and build the application according to the design. **4.** Testing Phase: Test the application for errors, bugs, and usability issues; ensure it meets requirements before deployment.	CBSE Study Material	Unit 2	Pg 70	4

Q.22	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. In Java, threads can be created in two ways 1. By extending the Thread class 2. By implementing the Runnable interface	CBSE Study Material	Unit 3	Pg138	2+2
Q.23	a) Arrays store multiple values of the same type. Declaration: String[] Names = new String[5]; Initialization: String[] Names = {"Amit", "Rina", "Anil", "Asha", "Ravi"}; b) i) String[] Names = {"Amit", "Rina", "Anil", "Asha", "Ravi"}; **ii)** `int i = 0;` `System.out.println("Names in the array:")` `while (i < Names.length) {` `  System.out.println(Names[i]);` `  i++;` `}` c) In this case an Array index out of bounds error occurs and the program terminates unexpectedly with an error message	CBSE Study Material	Unit 3	Pg108	1+2+1
Q.24	a) SELECT MID, COUNT(AID) FROM ACTOR GROUP BY MID; b) INSERT INTO MOVIE VALUES ('M04', '3 Idiots', 'Comedy', 200000); c) SELECT M.MName, A.ActorName, M.Genre FROM MOVIE M JOIN ACTOR A ON M.MID = A.MID; d) SELECT * FROM MOVIE WHERE Budget > 200000;	CBSE Study Material	Unit 1	Pg 31	4