

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

| 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 |

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| 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() <ul style="list-style-type: none"> 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() <ul style="list-style-type: none"> Prints the text on the console. Moves the cursor to the next line after printing. | CBSE Study Material | Unit 3 | Pg 88 | 1 |

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| | <ul style="list-style-type: none"> 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 | Answer any 5 out of the given 6 questions (1x5=5 marks) | | | | |
| 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/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 (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 |

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| 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 | <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"> 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 |

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| Q.19 | <p>Advantages of using a DBMS:</p> <ol style="list-style-type: none"> 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. <p>(Any 3)</p> | CBSE Study Material | Unit 1 | Pg 4 | 3 |
| Answer any 3 out of the given 5 questions (4x3 = 12 marks) | | | | | |
| Q.20 | <p>i. String lowerStr = str.toLowerCase(); System.out.println("Lowercase: " + lowerStr);</p> <p>ii. int length = lowerStr.length(); System.out.println("Length: " + length);</p> <p>iii. String appendedStr = lowerStr + " rocks"; System.out.println("Appended: " + appendedStr);</p> <p>iv. String replacedStr = appendedStr.replace("java", "Python"); System.out.println("Replaced: " + replacedStr);</p> | 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"> 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 |

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| 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"> 1. By extending the Thread class 2. By implementing the Runnable interface | CBSE Study Material | Unit 3 | Pg138 | 2+2 |
| Q.23 | <p>a) Arrays store multiple values of the same type. Declaration: <code>String[] Names = new String[5];</code> Initialization: <code>String[] Names = {"Amit", "Rina", "Anil", "Asha", "Ravi"};</code></p> <p>b)</p> <p>i) <code>String[] Names = {"Amit", "Rina", "Anil", "Asha", "Ravi"};</code></p> <p>ii)</p> <pre>int i = 0; System.out.println("Names in the array:") while (i < Names.length) { System.out.println(Names[i]); i++; }</pre> <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) <code>SELECT MID, COUNT(AID) FROM ACTOR GROUP BY MID;</code> b) <code>INSERT INTO MOVIE VALUES ('M04', '3 Idiots', 'Comedy', 200000);</code> c) <code>SELECT M.MName, A.ActorName, M.Genre FROM MOVIE M JOIN ACTOR A ON M.MID = A.MID;</code> d) <code>SELECT * FROM MOVIE WHERE Budget > 200000;</code></p> | CBSE Study Material | Unit 1 | Pg 31 | 4 |