Marking Scheme

Class: XI

ANNUAL EXAMINATION 2024-25

Subject: INFORMATION TECHNOLOGY

SET -A

Q1: Answer these questions on Employability Skills(1 x 4 = 4 marks)

1. Track changes are suggestions. If you want to make the changes permanent, you have to _____ them.

   Answer: c) Accept

2. Which of the following options are word processors? Select all the correct options.

   Answer: d) All of the above

3. On the _____ side of the status bar, you can see the page number and word count in LibreOffice.

   Answer: a) right

4. Which shortcut key is used to create a new document?

   Answer: b) Ctrl + N

Q2: Answer the given questions (1 x 5 = 5 marks)

1. The _____ is used to provide the user with several choices and allow him to select one of the choices.

   Answer: a) radio button

2. _____ case in MS-Word reverses the previous case.

   Answer: c) Toggle Case

3. What are DML statements?

   Answer: DML (Data Manipulation Language) statements are used to manipulate data in a database. These include SELECT, INSERT, UPDATE, and DELETE.

4. Name the memory which is used to cope-up with the high speed of the CPU.

Answer: Cache memory

5. In _____ mode, information can be transferred in both directions.

Answer: b) Full duplex

Q3: Answer the given questions (1 x 6 = 6 marks)

1. Write the syntax of the command to view the structure of the database.

Answer: DESCRIBE <database_name>;

2. Write the syntax of the command used to select a particular database in MySQL.

Answer: USE <database_name>;

3. What are Macros?

Answer: A macro is a set of instructions or a script that can be triggered by a single command or keystroke. It is typically used to automate repetitive tasks in applications like MS Word or Excel.

4. A _____ is a code that appears to be desirable and useful but ends up harming the system.

Answer: Trojan horse

5. In HTTPS protocol, ‘s’ stands for _____.

Answer: b) secure

6. 1 Byte takes _____ bits memory space.

Answer: 8 bits

Q4: Answer the given questions (1 x 5 = 5 marks)

1. A _____ chart is used to compare trends and changes in values over time.

Answer: a) Line

2. _____ are the actions that are performed on controls in Forms.

Answer: a) Event

3. Name the keyword used to eliminate the repeated values in the result of the query.

Answer: DISTINCT

4. NTFS stands for _____.

Answer: New Technology File System

5. _____ function key is used to present the slide show.

Answer: b) F5

Q5: Answer the given questions **(1 x 5 = 5 marks)**

1. _____ is used for indentation in MS-Word.

Answer: b) Ruler

2. _____ represents a value that is unavailable, unassigned, unknown or inapplicable in a Table in a database.

Answer: c) Null

3. Which SQL statement is used to delete data from a table?

Answer: a) DELETE

4. State True or False. DROP is a DML command.

Answer: False (DROP is a DDL command)

5. Controls placed inside a container control are called _____.

Answer: a) Child Controls

Q6: Answer the given questions **(1 x 5 = 5 marks)**

1. A _____ device is used to restore the input signal to its original form so that it can travel a larger distance.

Answer: d) Repeater

2. _____ menu is used to insert videos in a slide.

Answer: Insert

3. SELECT _____ means display all columns.

Answer: c) *

4. A _____ connects networks based on different protocol technologies to communicate with each other.

Answer: Gateway

5. Write the query to display the names of the employees of the Table Employee in descending order.

Answer SELECT Name FROM Employee ORDER BY Name DESC;

SECTION B: SUBJECTIVE TYPE QUESTIONS

Q7: Differentiate between Interest and Abilities.

Answer: Interest refers to the activities, topics, or subjects that a person enjoys or is curious about. For example, a person may have an interest in painting, music, or sports.

Abilities refer to the skills or talents a person possesses and their capacity to perform tasks. Abilities can be developed through practice, like playing an instrument or solving mathematical problems.

Q8: Rajesh has created a report in MS WORD but he is unable to add a hyperlink and page borders in his reports. How can you help him? Write the steps so that he can use the options.

Answer: Adding a Hyperlink:

- Select the text or image where you want to insert the hyperlink.
- Go to the Insert tab.
- Click on Link (or right-click and select Hyperlink).
- In the dialog box, type or paste the URL and click OK.

Adding Page Borders:

- Go to the Design tab.
- Click on Page Borders in the Page Background section.
- Select the desired border style, color, and width.
- Click OK to apply.

Q9: Define the meaning of Communication.

Answer: Communication is the process of exchanging information, ideas, thoughts, or feelings between individuals or groups using verbal, non-verbal, or written methods. It is crucial in ensuring understanding and collaboration.

Q10: Differentiate between getText() and setText() with example.

Answer: getText(): It retrieves the current text from a text field or text area.
Example: String text = textField.getText();

setText(): It sets the specified text to a text field or text area.

Example: textField.setText("Hello, World!");

Q11: Name the various data types available in SQL.

Answer: SQL supports several data types, including:

- Numeric Types: INT, FLOAT, DECIMAL
- Character Types: CHAR, VARCHAR, TEXT
- Date/Time Types: DATE, TIME, DATETIME
- Boolean Type: BOOLEAN
- Binary Types: BLOB, BINARY

Q12: Find the output of the following code:

```
int x = 5, y = 10, z = 15;
if (x < y && y > z || x + y > z)
{
   System.out.println("Condition 1");
}
else if (x > z || z - y < x)
{
   System.out.println("Condition 2");
}
else
{
   System.out.println("None");
}
```

Answer: The output will be "Condition 1" because the condition x + y > z evaluates to true.

Q13: Find the output of the following code:

```
int num = 1;
switch (num) {
   case 1:
   case 2:
   case 3:
      System.out.println("Number is 1, 2, or 3");
      break;
   default:
      System.out.println("Number is not 1, 2, or 3");
}
```

Answer: The output will be "Number is 1, 2, or 3" because no break statement is used after case 1, which leads to fall-through.

Q14: Identify the error & write the corrected code.

```
int num = =2;
switch (num) {
   case 1:
      System.out.println("One");
      break
   case 2:
      System.out.println("Two");
      break
   case 2:
      System.out.println("Duplicate");
      break
   default:
      System.out.println("Default");}
```

Answer:

```
int num = 2;

switch (num) {

   case 1:

      System.out.println("One");

      break;
```

```
    case 2:
        System.out.println("Two");
        break;
    default:
        System.out.println("Default");
  }
```

Q15: Identify the error & write the corrected code.

```
  int x == 5
  if (x => 10) {
     System.println("x > 10");
  } else if (x < 0) {
     System.println("x < 0");
  } else {
     System.println("x is 5");
  }
  System.println("Unreachable code example");
```

Answer:

```
  int x = 5;
if (x > =10) {
   System.out.println("x > 10");
} else if (x < 0) {
   System.out.println("x < 0");
} else {
   System.out.println("x is 5");
}
```

Q16: Design a GUI application to accept a number from the user in a text field and print whether it is an even or odd number.

Answer:

```
int number = Integer.parseInt(inputField.getText());
if (number % 2 == 0) {
        resultLabel.setText("Even");
```

```
        }
else {
      resultLabel.setText("Odd");
     }
```

Q17: Consider the following table and write SQL statements

Given the MOV table, the SQL statements would be:

i) Display a list of all movies with Price over 20.

```
SELECT * FROM MOV WHERE Price > 20;
```

ii) Display all the movies sorted by Qty in decreasing order.

```
SELECT * FROM MOV ORDER BY Qty DESC;
```

iii) Display the name of movies starting with letter R.

```
SELECT Name FROM MOV WHERE Name LIKE 'R%';
```

iv) Add a column with the name “Rating” in the above table.

```
ALTER TABLE MOV ADD COLUMN Rating VARCHAR(10);
```

Q18: Shyam has created the following table of marks of his students. He wants to check how many students have scored marks below 30 in Maths in his class and also wants to create a chart of the table. Write the steps.

Answer:

1. Check records of students who scored below 30 in Maths:
   - Open the data table in the relevant application (e.g., MS Excel or MS Access).
   - Use filters to display students whose Math scores are below 30.
2. Create a Chart of the Table:
   - Select the data.
   - Go to the Insert tab and select the type of chart you want (e.g., bar chart, pie chart).
3. Write the steps to save the file from unauthorized access:
   - Use password protection on the file to restrict access (File > Info > Protect Workbook).

- Alternatively, use encryption or restrict editing permissions.