

MATH LOVE INSTITUTE

Annual Examination 2025-26

Class: VII | Subject: Computer Science

Time: 3 Hours | Maximum Marks: 80

Math Love Institute | Raipur, CG | Indore, MP | www.mathlove.in | +91 7869553517

Student Name:	_____
Roll Number:	_____
Date:	_____

General Instructions:

1. All questions are compulsory.
2. The question paper is divided into 5 sections: A, B, C, D, and E.
3. Section A: Multiple Choice Questions (1 mark each) - 15 marks
4. Section B: Fill in the Blanks / True-False (1 mark each) - 15 marks
5. Section C: Short Answer Questions (2 marks each) - 20 marks
6. Section D: Long Answer Questions (3 marks each) - 15 marks
7. Section E: Practical/Programming Questions (5 marks each) - 15 marks
8. Write neatly and legibly.
9. For programming questions, write complete code with proper syntax.

SECTION A - Multiple Choice Questions (15 Marks)

- Q1.** Which of the following is used to create conditional logic in Python? **[1]**
- (a) for loop
 - (b) if-else statement
 - (c) while loop
 - (d) function
- Q2.** In HTML, which tag is used to create a hyperlink? **[1]**
- (a) <link>
 - (b) <a>
 - (c) <href>
 - (d) <url>
- Q3.** Which HTML tag is used to create a table? **[1]**
- (a) <tab>
 - (b) <table>
 - (c) <tr>
 - (d) <td>
- Q4.** What does 'elif' stand for in Python? **[1]**
- (a) else if
 - (b) element if
 - (c) electronic if
 - (d) equal if
- Q5.** Which of the following is used for video conferencing? **[1]**
- (a) Email
 - (b) Zoom
 - (c) Blog
 - (d) Wiki
- Q6.** What is the full form of AI? **[1]**
- (a) Artificial Information
 - (b) Automated Intelligence
 - (c) Artificial Intelligence
 - (d) Advanced Information

- Q7.** Which HTML attribute is used to specify the width of a table border? **[1]**
- (a) size
 - (b) border
 - (c) width
 - (d) style
- Q8.** In Python, which operator is used to check equality? **[1]**
- (a) =
 - (b) ==
 - (c) ===
 - (d) !=
- Q9.** What is machine learning? **[1]**
- (a) Teaching machines manually
 - (b) Machines learning from data without explicit programming
 - (c) Programming machines
 - (d) Building machines
- Q10.** Which tag is used to create an ordered list in HTML? **[1]**
- (a)
 - (b)
 - (c)
 - (d) <list>
- Q11.** What is the purpose of the <tr> tag in HTML? **[1]**
- (a) Table row
 - (b) Table data
 - (c) Table record
 - (d) Table reference
- Q12.** Which internet service allows real-time text communication? **[1]**
- (a) Email
 - (b) Chat
 - (c) Blog
 - (d) FTP

Q13. In Python, what will be the output of: `print(5 > 3)`? **[1]**
(a) 5
(b) 3
(c) True
(d) False

Q14. Which HTML tag is used to insert an image? **[1]**
(a) `<image>`
(b) ``
(c) `<pic>`
(d) `<photo>`

Q15. What is e-commerce? **[1]**
(a) Electronic mail
(b) Buying and selling goods online
(c) Electronic communication
(d) Online education

SECTION B - Fill in the Blanks / True-False (15 Marks)

Q16. The _____ statement in Python is used when the if condition is false. **[1]**

Q17. HTML stands for _____ Language. **[1]**

Q18. The `<td>` tag in HTML stands for _____. **[1]**

Q19. _____ is a service that allows audio and video communication over the internet. **[1]**

Q20. The father of Artificial Intelligence is _____. **[1]**

Q21. True or False: Python is case-sensitive. _____ **[1]**

Q22. True or False: The tag creates an ordered list in HTML. **[1]**

Q23. True or False: Video conferencing requires a webcam and microphone. **[1]**

Q24. The _____ attribute in HTML is used to provide alternative text for images. **[1]**

Q25. _____ learning is a subset of Artificial Intelligence. **[1]**

Q26. True or False: Email is a form of synchronous communication. **[1]**

Q27. The <a> tag uses the _____ attribute to specify the URL of the link. **[1]**

Q28. True or False: In Python, indentation is mandatory for if-else blocks. **[1]**

Q29. _____ is an example of a blogging platform. **[1]**

Q30. True or False: AI can only be used in computers. _____ **[1]**

SECTION C - Short Answer Questions (20 Marks)
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Q31. Write the syntax of an if-else statement in Python with an example. **[2]**

Q32. What is the difference between and tags in HTML? **[2]**

Q33. Name any four internet services. **[2]**

Q34. What is the purpose of the <table> tag in HTML? Write its basic structure. **[2]**

Q35. Define Artificial Intelligence and give two examples of AI applications. **[2]**

Q36. What is video conferencing? Name two video conferencing tools. **[2]**

Q37. Explain the difference between '=' and '==' operators in Python. **[2]**

Q38. What is the use of the 'href' attribute in HTML? **[2]**

Q39. Write two advantages of e-learning. **[2]**

Q40. What is Machine Learning? How is it different from traditional programming? **[2]**

SECTION D - Long Answer Questions (15 Marks)

Q41. Explain the if-elif-else ladder in Python with a suitable example to find the grade of a student based on marks. **[3]**

Q42. Write HTML code to create a table with 3 rows and 3 columns showing student roll number, name, and marks. Include a border and heading row. **[3]**

Q43. What is audio and video conferencing? Explain its advantages and hardware requirements. **[3]**

Q44. Explain any three domains of Artificial Intelligence with examples. **[3]**

Q45. Create an HTML page with the following: **[3]**

- A heading "My Favorite Subjects"
- An unordered list of 4 subjects
- An image of a book (assume filename: book.jpg)
- A hyperlink to www.google.com

SECTION E - Practical/Programming Questions (15 Marks)

Q46. Write a Python program to check whether a number entered by the user is positive, negative, or zero using if-elif-else. **[5]**

Q47. Write a Python program that takes a student's marks as input and displays **[5]** the grade as follows:

- Marks ≥ 90 : Grade A
- Marks ≥ 75 : Grade B
- Marks ≥ 60 : Grade C
- Marks ≥ 40 : Grade D
- Marks < 40 : Grade F

Q48. Write complete HTML code to create a webpage for a "School Notice Board" that includes: **[5]**

- Page title
- Main heading
- An ordered list of 5 notices
- A table showing exam schedule (3 subjects with date and time)
- Background color for the page

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ANSWER KEY

Class 7 - Computer Science Annual Exam 2025-

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Section A - Multiple Choice Questions Answers

Q1. Answer: (b) if-else statement

Explanation: The if-else statement is used to create conditional logic in Python. It allows the program to make decisions based on whether a condition is true or false.

Marking: 1 mark for correct answer

Q2. Answer: (b) <a>

Explanation: The <a> (anchor) tag is used to create hyperlinks in HTML. The href attribute specifies the URL of the page the link goes to.

Marking: 1 mark for correct answer

Q3. Answer: (b) <table>

Explanation: The <table> tag is the main tag used to create a table in HTML. It contains rows (<tr>) and cells (<td>).

Marking: 1 mark for correct answer

Q4. Answer: (a) else if

Explanation: 'elif' is short for "else if" in Python. It is used to check multiple conditions in sequence.

Marking: 1 mark for correct answer

Q5. Answer: (b) Zoom

Explanation: Zoom is a popular video conferencing tool that allows audio and video communication over the internet. Other examples include Google Meet, Microsoft Teams, and Skype.

Marking: 1 mark for correct answer

Q6. Answer: (c) Artificial Intelligence

Explanation: AI stands for Artificial Intelligence, which refers to the simulation of human intelligence by machines.

Marking: 1 mark for correct answer

Q7. Answer: (b) border

Explanation: The border attribute in the <table> tag specifies the width of the table border in pixels.

Marking: 1 mark for correct answer

Q8. Answer: (b) ==

Explanation: The '==' operator is used to check equality in Python. The single '=' is used for assignment.

Marking: 1 mark for correct answer

Q9. Answer: (b) Machines learning from data without explicit programming

Explanation: Machine learning is a subset of AI where machines learn patterns from data and improve their performance over time without being explicitly programmed for every task.

Marking: 1 mark for correct answer

**Q10. Answer: (b) **

Explanation: The tag creates an ordered (numbered) list in HTML, while creates an unordered (bulleted) list.

Marking: 1 mark for correct answer

Q11. Answer: (a) Table row

Explanation: The <tr> tag defines a row in an HTML table. Each row contains one or more <td> (table data) or <th> (table header) elements.

Marking: 1 mark for correct answer

Q12. Answer: (b) Chat

Explanation: Chat services like WhatsApp, Facebook Messenger, and IRC allow real-time text communication over the internet.

Marking: 1 mark for correct answer

Q13. Answer: (c) True

Explanation: Since 5 is greater than 3, the expression evaluates to True (boolean value).

Marking: 1 mark for correct answer

**Q14. Answer: (b) **

Explanation: The tag is used to insert an image in HTML. It uses the 'src' attribute to specify the image source.

Marking: 1 mark for correct answer

Q15. Answer: (b) Buying and selling goods online

Explanation: E-commerce (electronic commerce) refers to buying and selling goods and services over the internet. Examples include Amazon, Flipkart, etc.

Marking: 1 mark for correct answer

Section B - Fill in the Blanks / True-False Answers

Q16. Answer: else

Explanation: The 'else' statement executes when the if condition is false.

Marking: 1 mark for correct answer

Q17. Answer: Hyper Text Markup Language

Explanation: HTML stands for Hyper Text Markup Language, which is used to create web pages.

Marking: 1 mark for correct answer

Q18. Answer: Table Data

Explanation: The <td> tag stands for Table Data and contains the actual content of a table cell.

Marking: 1 mark for correct answer

Q19. Answer: Video conferencing

Explanation: Video conferencing allows people to communicate using both audio and video over the internet.

Marking: 1 mark for correct answer

Q20. Answer: John McCarthy

Explanation: John McCarthy coined the term "Artificial Intelligence" in 1956 and is considered the father of AI.

Marking: 1 mark for correct answer

Q21. Answer: True

Explanation: Python is case-sensitive, meaning 'Variable' and 'variable' are different identifiers.

Marking: 1 mark for correct answer

Q22. Answer: False

Explanation: The tag creates an unordered (bulleted) list. The tag creates an ordered (numbered) list.

Marking: 1 mark for correct answer

Q23. Answer: True

Explanation: Video conferencing requires a webcam for video input and a microphone for audio input, along with speakers/headphones and internet connection.

Marking: 1 mark for correct answer

Q24. Answer: alt

Explanation: The 'alt' attribute provides alternative text for images, which is displayed if the image cannot be loaded.

Marking: 1 mark for correct answer

Q25. Answer: Machine

Explanation: Machine learning is a subset of Artificial Intelligence that focuses on learning from data.

Marking: 1 mark for correct answer

Q26. Answer: False

Explanation: Email is asynchronous communication, meaning users don't need to be online at the same time. Chat and video conferencing are synchronous.

Marking: 1 mark for correct answer

Q27. Answer: href

Explanation: The href (hypertext reference) attribute specifies the URL of the page the link goes to.

Marking: 1 mark for correct answer

Q28. Answer: True

Explanation: Indentation is mandatory in Python to define code blocks. It's not optional like in other languages.

Marking: 1 mark for correct answer

Q29. Answer: WordPress / Blogger / Medium

Explanation: WordPress, Blogger, and Medium are popular blogging platforms. Any one answer is acceptable.

Marking: 1 mark for correct answer

Q30. Answer: False

Explanation: AI is used in many devices including smartphones, smart speakers (Alexa), robots, self-driving cars, and more.

Marking: 1 mark for correct answer

Section C - Short Answer Questions Answers

Q31. Answer: Syntax of if-else statement in Python

Syntax:

```
if condition:
    # code to execute if condition is true
    statement1
else:
    # code to execute if condition is false
    statement2
```

Example:

```
age = 18
if age >= 18:
    print("Eligible for voting")
else:
    print("Not eligible for voting")
```

Output: Eligible for voting

Marking: 1 mark for correct syntax, 1 mark for correct example

Q32. Answer: Difference between and tags

 Tag	 Tag
Creates an ordered list	Creates an unordered list
Items are numbered (1, 2, 3...)	Items have bullets (•)
Used when order matters	Used when order doesn't matter

Marking: 1 mark for each correct difference (2 marks total)

Q33. Answer: Four internet services

1. **Email (Electronic Mail):** Sending and receiving messages and files over the internet
2. **World Wide Web (WWW):** Accessing web pages and information using browsers
3. **Video Conferencing:** Real-time audio and video communication
4. **Social Networking:** Connecting with people through platforms like Facebook, Instagram

Other examples: E-commerce, E-learning, Chat, Blog, Cloud computing, File transfer (FTP)

Marking: 0.5 marks for each correct service (2 marks total)

Q34. Answer: Purpose and structure of <table> tag

Purpose: The <table> tag is used to create a table in HTML. Tables are used to display data in rows and columns format, making it easy to organize and present information.

Basic Structure:

```
<table border="1">
  <tr>
    <th>Header 1</th>
    <th>Header 2</th>
  </tr>
  <tr>
    <td>Data 1</td>
    <td>Data 2</td>
  </tr>
</table>
```

Where: <tr> = Table Row, <th> = Table Header, <td> = Table Data

Marking: 1 mark for purpose, 1 mark for basic structure

Q35. Answer: Definition and examples of Artificial Intelligence

Definition: Artificial Intelligence (AI) is a branch of computer science that enables machines and computers to perform tasks that typically require human intelligence, such as learning, reasoning, problem-solving, understanding language, and recognizing patterns.

Two Examples of AI Applications:

1. **Virtual Assistants:** Siri, Alexa, and Google Assistant that understand voice commands and respond intelligently
2. **Facial Recognition:** Unlocking smartphones using face recognition, photo tagging on social media

Other examples: Self-driving cars, recommendation systems (Netflix, YouTube), chatbots, spam filters

Marking: 1 mark for definition, 0.5 marks for each example (2 marks total)

Q36. Answer: Video conferencing and tools

Definition: Video conferencing is a technology that allows people at two or more locations to communicate and interact with each other using audio and video transmission over the internet. It enables face-to-face meetings without physical presence.

Two Video Conferencing Tools:

1. **Zoom:** Popular platform for online meetings, webinars, and classes
2. **Google Meet:** Google's video conferencing service for business and education

Other examples: Microsoft Teams, Skype, Cisco Webex, WhatsApp Video Call

Marking: 1 mark for definition, 0.5 marks for each tool (2 marks total)

Q37. Answer: Difference between '=' and '==' operators

Aspect	= Operator	== Operator
Purpose	Assignment operator	Comparison operator
Function	Assigns value to a variable	Checks if two values are equal
Example	x = 5 (assigns 5 to x)	x == 5 (checks if x equals 5)
Returns	No return value	Returns True or False

Marking: 1 mark for each operator explanation (2 marks total)

Q38. Answer: Use of 'href' attribute

Purpose: The 'href' attribute (hypertext reference) is used in the <a> tag to specify the URL or web address that the hyperlink points to. When a user clicks

on the link, they are directed to the page specified in the href attribute.

Syntax:

```
<a href="URL">Link Text</a>
```

Example:

```
<a href="https://www.google.com">Go to Google</a>
```

This creates a clickable link with text "Go to Google" that directs to www.google.com

Marking: 1 mark for explanation, 1 mark for example/syntax

Q39. Answer: Two advantages of e-learning

1. **Flexibility and Convenience:** Students can learn at their own pace and time from anywhere with internet access. They can access study materials 24/7 and don't need to commute to a physical location.
2. **Access to Diverse Resources:** E-learning provides access to a wide range of learning materials including videos, interactive content, online libraries, and expert teachers from around the world, which may not be available in traditional classrooms.

Other advantages: Cost-effective, personalized learning, instant feedback, eco-friendly (no paper), recordings for revision

Marking: 1 mark for each advantage (2 marks total)

Q40. Answer: Machine Learning and its difference from traditional programming

Definition: Machine Learning is a subset of Artificial Intelligence where computers learn from data and improve their performance on tasks without being explicitly programmed for each specific scenario. The machine identifies patterns in data and makes predictions or decisions based on those patterns.

Difference from Traditional Programming:

Traditional Programming	Machine Learning
Programmer writes explicit rules and logic	Machine learns rules from data
Input + Rules → Output	Input + Output → Rules (Model)
Works on predefined instructions	Improves with more data

Marking: 1 mark for definition, 1 mark for difference explanation

Section D - Long Answer Questions Answers

Q41. Answer: if-elif-else ladder with student grade example

Explanation: The if-elif-else ladder is used when we need to check multiple conditions in sequence. Python checks each condition one by one. When a condition is true, it executes that block and skips the rest. If none of the conditions are true, the else block executes.

Syntax:

```
if condition1:
    # code block 1
elif condition2:
    # code block 2
elif condition3:
    # code block 3
```

```
else:  
    # code block 4
```

Example Program - Student Grade System:

```
# Program to find student grade based on marks  
marks = int(input("Enter student marks: "))  
  
if marks >= 90:  
    grade = "A"  
    print("Excellent! Grade:", grade)  
elif marks >= 75:  
    grade = "B"  
    print("Very Good! Grade:", grade)  
elif marks >= 60:  
    grade = "C"  
    print("Good! Grade:", grade)  
elif marks >= 40:  
    grade = "D"  
    print("Pass! Grade:", grade)  
else:  
    grade = "F"  
    print("Fail! Grade:", grade)
```

Sample Output:

```
Enter student marks: 85  
Very Good! Grade: B
```

How it works: The program checks conditions from top to bottom. If marks are 85, it skips the first condition (marks >= 90), finds the second condition true (marks >= 75), executes that block, and skips all remaining conditions.

Marking: 1 mark for explanation, 1.5 marks for correct syntax/example, 0.5 marks for output/working (3 marks total)

Q42. Answer: HTML code for student table

```
<!DOCTYPE html>
<html>
<head>
  <title>Student Information</title>
</head>
<body>
  <h2>Student Marks Table</h2>

  <table border="1">
    <tr>
      <th>Roll Number</th>
      <th>Name</th>
      <th>Marks</th>
    </tr>
    <tr>
      <td>101</td>
      <td>Rahul Kumar</td>
      <td>85</td>
    </tr>
    <tr>
      <td>102</td>
      <td>Priya Sharma</td>
      <td>92</td>
    </tr>
    <tr>
      <td>103</td>
      <td>Amit Singh</td>
```

```
        <td>78</td>
    </tr>
</table>
</body>
</html>
```

Output: This code creates a table with a border showing three students' information in a structured format with headers.

Key Points:

- `<table border="1">` creates table with visible border
- `<tr>` defines table rows
- `<th>` defines header cells (bold and centered)
- `<td>` defines data cells

Marking: 1 mark for basic structure, 1 mark for correct headers, 1 mark for data rows with border (3 marks total)

Q43. Answer: Audio and Video Conferencing - complete explanation

Definition: Audio and video conferencing is a technology that enables people at two or more locations to communicate and interact with each other through audio and video transmission over the internet or network connections. It simulates face-to-face meetings without requiring physical presence.

Advantages of Audio/Video Conferencing:

1. **Saves Time and Cost:** Eliminates travel time and expenses for meetings. Participants can join from anywhere.
2. **Increases Productivity:** Enables quick decision-making and more frequent communication between teams.
3. **Global Connectivity:** Connects people across different countries and time zones easily.

4. **Recording Facility:** Meetings can be recorded for future reference and for those who couldn't attend.
5. **Screen Sharing:** Participants can share presentations, documents, and screens for better collaboration.

Hardware Requirements:

Component	Purpose
Computer/Laptop/Smartphone	Main device to run conferencing software
Webcam/Camera	For video input (capturing video)
Microphone	For audio input (capturing voice)
Speakers/Headphones	For audio output (hearing others)
Monitor/Display	For viewing other participants
Internet Connection	For data transmission (stable broadband)

Popular Applications: Zoom, Google Meet, Microsoft Teams, Skype, Cisco Webex

Marking: 1 mark for definition, 1 mark for advantages, 1 mark for hardware requirements (3 marks total)

Q44. Answer: Three domains of Artificial Intelligence

1. Natural Language Processing (NLP):

Definition: NLP is the ability of machines to understand, interpret, and generate human language in a valuable way.

Examples:

- Virtual assistants like Siri, Alexa, Google Assistant that understand voice commands

- Language translation tools like Google Translate
- Chatbots for customer service
- Spam email filters

2. Computer Vision:

Definition: Computer Vision enables machines to see, identify, and process images and videos in the same way humans do.

Examples:

- Facial recognition for unlocking smartphones
- Self-driving cars that recognize traffic signals and obstacles
- Medical image analysis for disease diagnosis
- Photo tagging on social media (Facebook, Google Photos)

3. Machine Learning and Data Science:

Definition: This domain focuses on enabling computers to learn from data and make predictions or decisions without explicit programming.

Examples:

- Netflix and YouTube recommendations based on viewing history
- Product recommendations on Amazon and Flipkart
- Credit card fraud detection
- Weather forecasting

Other Important Domains: Robotics, Expert Systems, Speech Recognition

Marking: 1 mark for each domain with proper explanation and example (3 marks total)

Q45. Answer: Complete HTML page with all required elements

```
<!DOCTYPE html>  
<html>  
<head>
```

```
<title>My Favorite Subjects</title>
</head>
<body bgcolor="lightblue">

  <h1>My Favorite Subjects</h1>

  <h2>List of My Favorite Subjects:</h2>
  <ul>
    <li>Mathematics</li>
    <li>Computer Science</li>
    <li>Science</li>
    <li>English</li>
  </ul>

  <h2>Learning Resources:</h2>
  

  <h2>Search for More Information:</h2>
  <a href="https://www.google.com">Click here to go
to Google</a>

</body>
</html>
```

Explanation of Code:

- **<h1>My Favorite Subjects</h1>** - Main heading as required
- **...** - Unordered list with 4 subjects
- **** - Image tag with source filename and alt text
- **** - Hyperlink to Google
- **bgcolor="lightblue"** - Optional background color for better appearance

Marking: 0.5 marks for heading, 0.75 marks for unordered list, 0.75 marks for image, 0.75 marks for hyperlink, 0.25 marks for proper structure (3 marks total)

Section E - Practical/Programming Questions

Answers

Q46. Answer: Python program to check positive, negative, or zero

Program:

```
# Program to check if a number is positive, negative,
or zero

# Taking input from user
number = float(input("Enter a number: "))

# Checking the number using if-elif-else
if number > 0:
    print("The number", number, "is POSITIVE")
elif number < 0:
    print("The number", number, "is NEGATIVE")
else:
    print("The number is ZERO")

print("Thank you for using the program!")
```

Sample Outputs:

```
Test Case 1:
Enter a number: 15
The number 15.0 is POSITIVE
```

```
Thank you for using the program!
```

```
Test Case 2:
```

```
Enter a number: -7
```

```
The number -7.0 is NEGATIVE
```

```
Thank you for using the program!
```

```
Test Case 3:
```

```
Enter a number: 0
```

```
The number is ZERO
```

```
Thank you for using the program!
```

Explanation:

- We use **float()** to accept decimal numbers too
- First **if** checks if number is greater than 0 (positive)
- **elif** checks if number is less than 0 (negative)
- **else** handles the remaining case (zero)
- All three conditions are mutually exclusive

Marking: 1 mark for input, 2 marks for correct if-elif-else logic, 1 mark for output statements, 1 mark for proper comments/testing (5 marks total)



Q47. Answer: Python program for student grade system

Program:

```
# Program to calculate student grade based on marks

print("***** STUDENT GRADE CALCULATOR *****")
print()

# Taking input from user
```

```
marks = int(input("Enter student marks (0-100): "))

# Validating input
if marks < 0 or marks > 100:
    print("Invalid marks! Please enter marks between 0
and 100.")
else:
    # Determining grade using if-elif-else ladder
    if marks >= 90:
        grade = "A"
        remark = "Outstanding Performance!"
    elif marks >= 75:
        grade = "B"
        remark = "Excellent Performance!"
    elif marks >= 60:
        grade = "C"
        remark = "Good Performance!"
    elif marks >= 40:
        grade = "D"
        remark = "Satisfactory Performance. Need to
work harder!"
    else:
        grade = "F"
        remark = "Failed! Need significant
improvement!"

# Displaying result
print()
print("=" * 40)
print("RESULT:")
print("Marks Obtained:", marks)
print("Grade:", grade)
```

```
print("Remark:", remark)
print("=" * 40)
```

Sample Outputs:

```
Test Case 1:
***** STUDENT GRADE CALCULATOR *****

Enter student marks (0-100): 92
=====

RESULT:
Marks Obtained: 92
Grade: A
Remark: Outstanding Performance!
=====

Test Case 2:
Enter student marks (0-100): 68
=====

RESULT:
Marks Obtained: 68
Grade: C
Remark: Good Performance!
=====

Test Case 3:
Enter student marks (0-100): 35
=====

RESULT:
Marks Obtained: 35
Grade: F
Remark: Failed! Need significant improvement!
=====
```

Test Case 4:

Enter student marks (0-100): 105

Invalid marks! Please enter marks between 0 and 100.

Key Features:

- Input validation to check if marks are in valid range (0-100)
- Proper if-elif-else ladder structure
- Conditions arranged from highest to lowest for efficiency
- Formatted output with remarks for better presentation
- Handles all edge cases (0, 100, invalid input)

Marking: 1 mark for input and validation, 2.5 marks for correct if-elif-else ladder with all conditions, 1 mark for output formatting, 0.5 marks for remarks/presentation (5 marks total)

Q48. Answer: Complete HTML code for School Notice Board

```
<!DOCTYPE html>
<html>
<head>
  <title>School Notice Board</title>
</head>
<body bgcolor="#f0f8ff">

  <!-- Main Heading -->
  <h1 style="text-align: center; color: #1e5a96;
background: #ffeb3b; padding: 15px;">
    SCHOOL NOTICE BOARD
  </h1>

  <h2 style="color: #d32f2f;">Important Notices</h2>
```

<!-- Ordered List of Notices -->

<ol type="1">

Annual Day Celebration:

The school annual day will be celebrated on 15th February 2026 at 10:00 AM in the school auditorium. All students must attend.

Sports Day: Inter-house

sports competition will be held on 20th February 2026. Interested students should register with the sports teacher by 10th February.

Parent-Teacher Meeting:

PTM is scheduled for 25th February 2026 from 9:00 AM to 12:00 PM. Parents are requested to meet the class teachers.

Science Exhibition:

Science exhibition will be organized on 1st March 2026. Students should prepare models and projects related to their science curriculum.

School Picnic: A one-day

educational tour is planned for 5th March 2026. Permission slips must be submitted by 28th February 2026.

<hr>

<!-- Exam Schedule Table -->

<h2 style="color: #d32f2f;">Annual Examination

Schedule</h2>

```
<table border="2" cellpadding="10" cellspacing="0" width="70%">
```

```
<tr bgcolor="#4caf50">
```

```
<th style="color: white;">Subject</th>
```

```
<th style="color: white;">Date</th>
```

```
<th style="color: white;">Time</th>
```

```
</tr>
```

```
<tr>
```

```
<td>Mathematics</td>
```

```
<td>10th March 2026</td>
```

```
<td>9:00 AM - 12:00 PM</td>
```

```
</tr>
```

```
<tr>
```

```
<td>Science</td>
```

```
<td>12th March 2026</td>
```

```
<td>9:00 AM - 12:00 PM</td>
```

```
</tr>
```

```
<tr>
```

```
<td>Computer Science</td>
```

```
<td>14th March 2026</td>
```

```
<td>9:00 AM - 12:00 PM</td>
```

```
</tr>
```

```
</table>
```

```
<hr>
```

```
<p style="text-align: center; font-weight: bold; margin-top: 30px;">
```

```
For more information, contact the school office.
```

```
</p>
```

```

    <p style="text-align: center; color: #666;">
        © 2025 School Administration. All Rights
    Reserved.
    </p>

</body>
</html>

```

Explanation of Code Components:

Component	Purpose
<title>	Sets the page title shown in browser tab
<body bgcolor="#f0f8ff">	Sets light blue background color for entire page
<h1> with inline CSS	Main heading with centered alignment, colors, and padding
<ol type="1">	Ordered list with numbers for 5 notices
	Makes notice titles bold for emphasis
<table> with attributes	Table with border=2, cellpadding for spacing
<tr bgcolor="#4caf50">	Green background for header row
<hr>	Horizontal line to separate sections

Key Features Implemented:

- ✓ Page title in <title> tag
- ✓ Main heading using <h1>
- ✓ Ordered list with 5 notices
- ✓ Table with exam schedule (3 subjects with date and time)

- ✓ Background color for the page
- ✓ Additional styling for better presentation
- ✓ Proper HTML structure with DOCTYPE and all required tags

Marking: 1 mark for basic structure with title, 1.5 marks for ordered list with 5 items, 2 marks for properly formatted table with headers and data, 0.5 marks for background color and overall presentation (5 marks total)

Marking Summary

Section	Question Type	Total Marks
Section A	Multiple Choice Questions (15 × 1)	15 marks
Section B	Fill in the Blanks / True-False (15 × 1)	15 marks
Section C	Short Answer Questions (10 × 2)	20 marks
Section D	Long Answer Questions (5 × 3)	15 marks
Section E	Practical/Programming (3 × 5)	15 marks
TOTAL		80 marks

MATH LOVE INSTITUTE

+91 7869553517 | www.mathlove.in

📍 Raipur, Chhattisgarh | Indore, Madhya Pradesh

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Education is the Foundation of Life | शिक्षा ही जीवन का आधार है

This paper covers: Python Conditional Statements | HTML Advanced Features | Internet Services | Audio & Video Conferencing | Artificial Intelligence

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