

PYTHON EXAMINATION PAPER

 **Maximum Marks: 40**

Instructions:

All questions are **compulsory**.

Read each question carefully before answering.

Marks are assigned to each question. Answer accordingly.

Write **neat and structured answers** for theoretical questions.

In practical questions, provide **correct logic and explanations**.

Attempt all parts in **sequence** as given.

Section A – Theoretical Questions (10 Marks)

 *(Each question carries 1 mark)*

Q1 Answer the following questions in brief.

1. What is the purpose of the `print()` function in Python?

2. Explain the difference between **single-line** and **multi-line comments** in Python.

3. List any **two basic data types** in Python with examples.

4. What will be the output of `bool(None)` in Python?

5. What is **type casting**? Provide an example.

6. Differentiate between **List** and **Tuple** in Python.


7. Explain the role of the **if-else** statement in Python.

8. How does a **for loop** differ from a **while loop**?

9 What is the significance of the match-case statement in Python?

10 What is the purpose of the finally block in exception handling?

Section B – Application-Based Questions (30 Marks)

 (Each question carries 7.5 marks)

Q11: Counting Vowels and Consonants (7.5 Marks)

- Take a **sentence** as input from the user.
- Count and display the number of **vowels** and **consonants** separately.

 **Example:**

Input: "Python is amazing"

Output: Vowels: 5, Consonants: 10

Q12: Billing System with Discounts (7.5 Marks)

A store offers discounts based on the **purchase amount**:

- **Above ₹5000** → 20% Discount
- **Between ₹2000 and ₹5000** → 10% Discount
- **Below ₹2000** → No Discount

 **Task:**

- Take the purchase amount as input.
- Calculate the final bill after applying the discount.
- Display the total bill amount.

 **Example:**

Input: ₹4500

Output: Discount Applied: 10%, Final Bill: ₹4050

Q13: Finding the Second-Highest Salary (7.5 Marks)

- Given a list of employee salaries, find the **second-highest salary**.
- If all salaries are the same, display "**No second-highest salary available.**"

 **Example:**

Input: [40000, 25000, 50000, 35000, 50000]

Output: Second-Highest Salary: ₹40000

Q14: Student Marks Lookup (7.5 Marks)

- A dictionary stores student names as **keys** and their **marks** as values.
- The user inputs a student's name, and the program should **display their marks**.
- If the name is **not found**, print "**Student not found in records.**"

 **Example:**

Input: "John"

Output: John scored 85 marks.

MARKING SCHEME

- ✓ Section A (Theoretical) → 10 Marks (1 mark per question)
- ✓ Section B (Application-Based) → 30 Marks (7.5 marks per question)
- ✓ Total Marks → 40

📌 **Note:**

- ✓ Partial marking may be given for **correct logic** in application-based questions.
 - ✓ Use **proper variable names, indentation, and comments** in coding solutions.
 - ✓ Attempt all questions with **clear explanations**.
-



Best of Luck!

