



## **DIPLOMA IN INFORMATION TECHNOLOGY**

### **CENTRALIZED QUESTION BANK**

**1052234340 - JAVA PROGRAMMING**

**DIRECTORATE OF TECHNICAL  
EDUCATION GOVERNMENT OF  
TAMILNADU**

## **DIPLOMA END SEMESTER / YEAR EXAMINATION – 2025**

**Course:** Information Technology

**Subject :**Java Programming

**QP Code :**1052234340

**Time :**3 Hours

**Date :**

**Session:**

**Max Marks:**100

### **Answer the Following Questions**

1.       a) Write a Java program to read the temperature in Celsius and convert in to Fahrenheit.  
          b) Write a Java program to collect student details using constructors.
2.       a) Write a Java program to read 2 integers and find the largest number using conditional operator.  
          b) Write a Java program to calculate area of rectangle, triangle and square using method overloading.
3.       a) Write a Java program to implement command line arguments.  
          b) Write a Java program to create a class called Shape with methods called get Perimeter () and get Area (). Create a subclass called Circle that overrides the get Perimeter () and get Area () methods to calculate the area and perimeter of a circle.
4.       a) Write a Java program to find the sum and average of your tenth standard marks.  
          b) Write a Java program to create an interface Shape with the get Area() method. Create three classes Rectangle, Circle, and Triangle that implement the Shape interface. Implement the get Area() method for each of the three classes.
5.       a) Write a Java Program to sort 10 student names in alphabetical order using bubble sort.  
          b) Write a Java program to create a panel with three buttons, labeled Red, Blue and Yellow, so that clicking each button results in the background color changing to the appropriate color.
6.       a) Write a Java program to read the temperature in Celsius and convert into Fahrenheit.  
          b) Write a Java program to create a panel with three buttons, labeled Red, Blue and Yellow, so that clicking each button results in the background color changing to the appropriate color.
7.       a) Write a Java program to read 2 integers and find the largest number using conditional operator .  
          b) Write a Java program to create an interface Shape with the get Area() method. Create three classes Rectangle, Circle, and Triangle that implement the Shape interface. Implement the get Area() method for each of the three classes.
8.       a) Write a Java program to implement command line arguments.  
          b) Write a Java program to calculate area of rectangle, triangle and square using method

overloading.

9.
  - a) Write a Java program to find the sum and average of your tenth standard marks.
  - b) Write a Java program to create a class called Shape with methods called get Perimeter() and get Area(). Create a subclass called Circle that overrides the get Perimeter() and get Area() methods to calculate the area and perimeter of a circle.
10.
  - a) Write a Java Program to sort 10 student names in alphabetical order using bubble sort.
  - b) Write a Java program to collect student details using constructors.

#### **Allocation Of Marks**

<b>SlNo</b>	<b>Description</b>	<b>Marks</b>
1	Aim(05) Program from Part A (30)	35
2	Aim(05) Program from Part B (30)	35
3	Executing any one program (Part A or Part B)	15
4	Output	10
5	Viva Voce	05
<b>Total</b>		<b>100</b>