

**PARUL UNIVERSITY**  
**FACULTY OF ENGINEERING & TECHNOLOGY**  
**Diploma Engineering, Mid semester Examination**

**Semester: 4th**  
**Subject Code: 036063255**  
**Subject Name: Java Programming**

**Date: \_\_\_/\_\_\_/\_\_\_**  
**Time: 1hr: 30min**  
**Total Marks: 40**

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**Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. English version is considered to be Authentic.

**Q.1 Answer any six out of Ten. (2 Marks Each) (12)**

1. List four different OOP Concept.
2. Describe JVM
3. State the importance of garbage collection.
4. How Java is secure & portable than other language.
5. State the importance of byte code.
6. What is the return type of Constructors?
7. State the importance of wrapper classes.
8. \_\_\_\_\_ keyword is used to create a class.
9. What is type casting? Why it is required in programming?
10. Write difference between Java and C.

**Q.2 A) Write differences between Java and C++. (03)**

**OR**

A) Explain following (03)

(i) Byte Code (ii) JVM (iii) Platform Independent

B) Write a program and explain how to create class and object. (03)

**OR**

B) List different features of Java. Explain any one of it. (03)

C) List basic concepts of OOP. Explain any one. (04)

**OR**

C) Write a program to read five integer numbers from command line and display their sum and average. (04)

D) Define Term Java is portable and platform-independent. (04)

**Q.3 A) List types of array and Explain any one with example. (03)**

**OR**

A) Explain basic structure of Java programs. (03)

B) Explain Type Conversion and Casting. (03)

**OR**

B) What is the task of main method in Java program? (03)

C) Write a Java Program to sort array of 5 integer numbers in ascending order. (04)

**OR**

C) Explain this and static keywords with example. (04)

D) List different types of constructors and explain default constructor. (04)