Java Mid-Semester Examination

Set 2 – Data Types, Variables, and Basic Syntax

# SECTION A – Multiple Choice Questions (5 × 1 = 5 Marks)

Attempt all. Choose the best option.

1. 1. Which of the following is not a primitive data type?  
    A) int B) float C) String D) boolean
2. 2. Which keyword is used to define a constant in Java?  
    A) const B) constant C) final D) static
3. 3. Which of the following is a valid identifier?  
    A) 1number B) class C) $value D) void
4. 4. Java is known for its \_\_\_\_\_\_\_ management.  
    A) pointer B) memory C) manual D) arithmetic
5. 5. Arrays in Java are:  
    A) Heterogeneous B) Dynamic C) Fixed-size D) None of the above

# SECTION B – Fill in the Blanks (5 × 1 = 5 Marks)

Fill in the blanks with correct words:

1. 1. The \_\_\_\_\_\_\_ keyword is used to declare a class in Java.
2. 2. Java is case-\_\_\_\_\_\_\_ programming language.
3. 3. \_\_\_\_\_\_\_ variables are declared inside a method.
4. 4. JVM stands for \_\_\_\_\_\_\_.
5. 5. \_\_\_\_\_\_\_ is a process of converting one data type to another.

# SECTION C – Short Answer Questions (3 × 5 = 15 Marks)

Attempt any three questions. Each carries 5 marks.

1. 1. Explain implicit and explicit type casting with examples.
2. 2. Write a Java program to calculate the area of a rectangle.
3. 3. Define scope of variables with proper examples.
4. 4. Explain default values assigned to instance variables.
5. 5. List and describe three data types in Java.

# SECTION D – Coding/Logic (1 × 15 = 15 Marks)

Attempt any one of the following:

Q1. Write a Java program to input two integers and print their sum, product, and average.

OR

Q2. Write a program to demonstrate use of static variables and static methods using a class Employee.