**Class 9 Chapter 2**

**Introduction to Java**

**A. Tick (✓) the Correct Answer**

1. **Automatic memory management instructs JVM to**
   * **d. remove** unused objects automatically. (✓)
2. **Java can run on**
   * **d. All of these** (✓)
3. **Compile button is located at the \_\_\_\_\_ of the code editor window.**
   * **b. top** (✓)
4. **During compilation process, Java source code is converted to**
   * **c. Bytecode** (✓)
5. **Applets are codes in Java which are downloaded from a website on a**
   * **a. Client computer** (✓)

**B. Fill in the Blanks**

1. The extension of Java bytecode is **.class**.
2. Two types of Java programs are **Java Application** and **Java Applet**.
3. **BlueJ** is a freely downloadable application.
4. Java is a platform**-independent** programming language.
5. **The println()** method displays the given string along with a line feed.

**C. Short Answer Type Questions**

1. **What is BlueJ?**
   * **BlueJ** is an integrated development environment (IDE) designed for Java programming, mainly used for teaching and learning object-oriented programming.
2. **Write one difference between Java Application and Java Applet.**

| **Feature** | **Java Application** | **Java Applet** |
| --- | --- | --- |
| Execution | Runs on JVM as a standalone program | Runs inside a web browser |
| Main Method | Requires main() method | Does not require main() method |

1. **How do you create a Java project in BlueJ?**
   * Open **BlueJ** → Click on **Project** → Select **New Project** → Enter a name → Click **OK**.
2. **Write any two disadvantages of Java.**
   * **Slower execution speed** compared to languages like C++.
   * **Consumes more memory** due to JVM and garbage collection.
3. **Who developed Java? What was it initially called?**
   * **Java was developed by James Gosling** at Sun Microsystems.
   * It was initially called **Oak**.