

## PROGRAMMING IN JAVA

### Assignment 1

TYPE OF QUESTION: MCQ

Number of questions: 10

Total mark:  $10 \times 1 = 10$

#### **QUESTION 1:**

Which of the following is NOT a primitive data type in Java??

- a. int
- b. boolean
- c. String
- d. char

**Correct Answer: c**

**Detailed Solution:**

String is not a primitive data type.

#### **QUESTION 2:**

Consider the following program.

```
public class Question{  
    public static void main(String[] args){  
        byte x = 127;  
        x++;  
        ++x;  
        System.out.print(x);  
    }  
}
```

What is the output of the above code?

- a. 127
- b. -127
- c. 129
- d. 2

**Correct Answer: b**



**Detailed Solution:**

Range of byte data in java is -128 to 127. But the byte data type in java is cyclic in nature.

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**QUESTION 3:**

**Which of the following concept that Java doesn't support?**

- a. inheritance
- b. encapsulation
- c. pointer
- d. array

**Correct Answer: c**

**Detailed Solution:**

Java does not support pointer.

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**QUESTION 4:**

**Which of the following is not a keyword in java?**

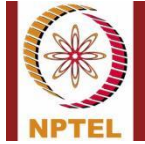
- a. import
- b. super
- c. method
- d. class

**Correct Answer: c**

**Detailed Solution:**

Here, import, super and class are reserved keywords in Java, which cannot be used for naming a variable or class.

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**QUESTION 5:**

**Consider the following program.**

```
public class Question{  
    public static void main(String[] args){  
        int[] x = {12, 20, 015};  
        for(int i = 0; i < x.length; i++){  
            System.out.print(x[i] + " ");  
        }  
    }  
}
```

**What will be the output of the program if it is executed?**

- a. 12 20 13
- b. 12 20 15
- c. 12 20 015
- d. 12 20 F

**Correct Answer: a**

**Detailed Solution:**

015 is an octal number, its equivalent decimal number is 13.

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**QUESTION 6:**

**Match the following java terms with their descriptions?**

A. JDK	1. A software development kit that provides all the necessary tools and libraries to develop, compile, and run Java applications.
B. JRE	2. A software package that provides the necessary runtime environment for executing Java applications.
C. JVM	3. An abstract machine that executes java bytecode.

**Choose the correct option.**

- a. A-1 , B-2, C-3
- b. A-2 , B-3, C-1
- c. A-3, B-2 ,C-1
- d. A-3, B-1,C-2

**Correct Answer: a**

**Detailed Solution:**

Option a is correct.

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**QUESTION 7:**

**Consider the following program.**

```
public class Question{  
    public static void main(String[] args){  
        short x = 20;  
        x = x * 2;  
        System.out.print(x);  
    }  
}
```

**What will be the output of the program if it is executed ?**

- a. 20
- b. 2
- c. Compiler error
- d. 40

**Correct Answer: c**

**Detailed Solution:**

This will give compile error - “Lossy conversion from int to short”.

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**QUESTION 8:**

**What is the output of the following code ?**

```
public class Question{  
    public static void main(String[] args){  
        boolean x = true;  
        boolean y = false;  
        boolean z=(x==y);  
        System.out.println(z);  
    }  
}
```

- a. null
- b. true
- c. false
- d. 1

**Correct Answer: c**

**Detailed Solution:**

Test by run.

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**QUESTION 9:**

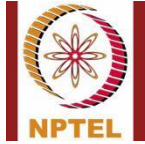
**Which program is used to compile Java source code into bytecode?**

- a. javap
- b. javac
- c. java
- d. javad

**Correct Answer: b**

**Detailed Solution:**

The JDK includes a tool, 'javac' that compiles from Java source code to a target of Java bytecodes. The program 'java' is used to execute Java bytecode. Note that there is no program like 'javap' and 'javad'.



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**QUESTION 10:**

**Consider the following program.**

```
public class Question{  
    public static void main(String[] args){  
        int x = 5;  
        x *= (2 + 8);  
        System.out.println(x);  
    }  
}
```

**What will be the output of the program if it is executed ?**

- a. 50
- b. 10
- c. Compiler error
- d. 5

**Correct Answer: a**

**Detailed Solution:**

Here,  $x * = 2 + 8$  is equivalent to  $x * (2 + 8) = x * 10$ . Therefore,  $x = 50$ .

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