

School of Computer Science and Engineering  
MCQ for Programming Ability and Logic Building – 1  
Java Programming  
Practice Set - 1  
(26-01-2026 to 07-02-2026)

**Question 1**

What is the output for the below code ?

```
public class A{
```

```
    int k;  
    boolean istrue;  
    static int p;
```

```
    static variable  
    instance variable  
    public void printValue() {  
        System.out.print(k);  
        System.out.print(istrue);  
        System.out.print(p);  
    }
```

```
}
```

```
public class Test{
```

```
    public static void main(String argv[]){
```

```
        A a = new A();  
        a.printValue();
```

```
}
```

Options are

A.0 false 0 B.0 true 0 C.0 0 0

D. Compile error - static variable must be initialized before use.

**Question - 2**

Java Identifiers + Keywords

What is the output for the below code ?

```
public class Test{
```

```
    int _$;  
    int $7;  
    int do;  
    public static void main(String argv[]){
```

```
        Test test = new Test();  
        test.$7=7;  
        test.do=9;  
        System.out.println(test.$7);
```

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```
        System.out.println(test.do);
        System.out.println(test._$);
    }
```

Options are

- A. 790
- B. 700
- C. Compile error - \$7 is not valid identifier.
- D. Compile error - do is not valid identifier.

Question - 3

What is the output for the below code ?

Number system (octal)

```
public class Test {
    public static void main(String[] args){
        int i = 010; //1
        int j = 07; //2
        System.out.println(i); //3
        System.out.println(j); //4
    } //5
} //6
} //7
} //8
```

Options are

- A. 87
- B. 107
- C. Compilation fails with an error at line 3
- D. Compilation fails with an error at line 5

Question - 4

What is the output for the below code ?

```
public class Test {
    public static void main(String[] args){
        byte b = 6; //1
        b+=8; //2
    } //3
} //4
```

byte + compound assignment Vs normal add

compound assignment      ) hypercast  
b = (byte)(b+8)

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```
        System.out.println(b); //5
        b = b+7; //6
        System.out.println(b); //7
        } //8
    } //9
```

**Options are**

- A. 14 21
- B. 14 13
- C. Compilation fails with an error at line 6
- D. Compilation fails with an error at line 4.

**Question - 5**

**What is the output for the below code ?**

Java pass by value String immutability

```
public class Test {
```

```
    public static void main(String[] args)
    {
        String value = "abc";
        changeValue(value);
        System.out.println(value);
    }

    public static void changeValue(String a)
    {
        a = "xyz";
    }
}
```

**Options are**

- A. abc
- B. xyz
- C. Compilation fails
- D. Compilation clean but no output

**Question - 6**

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You have two class files name Test.class and Test1.class inside javaproject directory.

*Main class + arguments + command*

Test.java source code is :

```
public class Test{  
    public static void main (String[] args)  
    {  
        System.out.println("Hello Test");  
    }  
}
```

Test1.java source code is :

```
public class Test1{  
    public static void main (String[] args)  
    {  
        System.out.println("Hello Test1");  
    }  
}
```

You have issued below commands from command prompt.

cd javaproject  
java Test Test1

What is the output ?

Options are

- A.Hello Test
- B.Hello Test Hello Test1
- C.Hello Test1
- D.Run fails - class not found

Question - 7

What is the output for the below code ?

public class Test {

//1

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Compound assignment (26-01-2026 to 07-02-2026)

+ operator  
procedure

```
public static void main(String... args) { //2
    int x = 5; //3
    x *= 3 + 7; //4
    System.out.println(x); //5
} //6
} //7
```

Options are

A. 22

B. 50

C. 10

D. Compilation fails with an error at line 4

Question - 8

String concatenation + Vs Arithmetic addition

What is the output for the below code ?

```
public class Test {
}
```

```
public static void main(String... args)
```

```
{
```

```
    int a = 5, b = 6, c = 7;
```

```
    System.out.println("Value is " + b + c);
```

```
    System.out.println(a + b + c);
```

```
    System.out.println("String " + (b + c));
```

```
}
```

```
}
```

Options are

A. Value is 67 18 String 13

B. Value is 13 18 String 13

C. Value is 13 18 String

D. Compilation fails

Question 9

A byte can be of what size

A. -128 to 127

B. (-2 power 8) -1 to 2 power 8

byte = 8 bits

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C. -255 to 256

D. depends on the particular implementation of the Java Virtual machine

**Question 10** *Command-line indexing*

What will be printed out if this code is run with the following command line?

*cmd java argument*

java myprog good morning

```
public class myprog
{
    public static void main(String argv[])
    {
        System.out.println(argv[2])
    }
}
```

A. myprog

B. good

C. morning

D. Exception raised: "java.lang.ArrayIndexOutOfBoundsException: 2"

**Question 11**

Which of the following are legal identifiers

A. 2variable

B. variable2

C. \_whatavariable

D. \_3\_

E. \$anothervar

F. #myvar

**Question 12**

*Static Variable*

What will happen when you compile and run the following code?

public class MyClass{

    static int i;

    public static void main(String argv[])

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```
{  
    System.out.println(i);  
}
```

- A. Error Variable i may not have been initialized      *local variable*  
B. null  
C. 1  
D. 0

**Question 13**

*Initialization of array*

What will happen if you try to compile and run the following code?

**public class Q**

```
{  
    public static void main(String argv[]){  
        int anar[]={1,2,3};  
        System.out.println(anar[1]);  
    }  
}
```

- A. 1  
B. Error anar is referenced before it is initialized  
C. 2  
D. Error: size of array must be defined

**Question 14**

*Array default value*

What will happen if you try to compile and run the following code?

**public class Q**

```
{  
    public static void main(String argv[]){  
        int anar[]={};  
        System.out.println(anar[0]);  
    }  
}
```

*Array of size 5*  
*All elements default value se initialize h. le h*  
*[0,0,0,0,0]*  
*default value of int=0*

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A. Error: anar is referenced before it is initialized

B. null

~~C. 0~~

D. 5

Question 15

What will be printed out if you attempt to compile and run the following code ?

```
int i=1;  
switch (i)  
{  
    case 0:  
        System.out.println("zero");  
    break;  
    case 1:  
        System.out.println("one");  
    case 2:  
        System.out.println("two");  
    default:  
        System.out.println("default");  
}
```

A. one

B. one, default

~~C. one, two, default~~

D. default

Question 16 Switch + default position + fall-through concept

What will be printed out if you attempt to compile and run the following code?

```
int i=9;  
switch (i)  
{  
    default:  
        System.out.println("default");  
}
```

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```
case 0:  
    System.out.println("zero");  
    break;  
case 1:  
    System.out.println("one");  
case 2:  
    System.out.println("two");  
}
```

- A. default
- B. default, zero
- C. error default clause not defined
- D. no output displayed

**Question 17**

Which of the following lines of code will compile without error

1)

```
X int i=0;  
if(i)  
{  
    System.out.println("Hello");  
}
```

} if cond^n mismatch (boolean) in  
java , int X  
→ compile error

2)

```
✓ boolean b=true;  
boolean b2=true;  
if(b==b2)  
{  
    System.out.println("So true");  
}
```

} if expects boolean

3)

```
✓ int i=1;  
int j=2;  
if(i==1 || j==2)  
    System.out.println("OK");
```

} (||) → logical OR for boolean

4)

```
X int i=1;
```

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```
int j=2;  
if(i==1 & | j==2)  
    System.out.println("OK");
```

81 → invalid operator

compile error

Question 18

String operations

Given the following declarations

```
String s1=new String("Hello")  
String s2=new String("there");  
String s3=new String();
```

Which of the following are legal operations?

- A.  $s3=s1 + s2;$  string concatenation ✓
- B.  $s3=s1 - s2;$  numbers X compile error
- C.  $s3=s1 \& s2$  binary X
- D.  $s3=s1 \&& s2$  boolean logical AND X

Question 19

What is the result of the following operation?

```
System.out.println(4 | 3);
```

- A. 6
- B. 0
- C. 1
- D. ✓

Question 20

```
public class MyClass1  
{
```

```
    public static void main(String argv[]){ }  
    /*Modifier at XX */ class MyInner {}
```

```
}
```

What modifiers would be legal at XX in the above code?

- A. public
- B. private ✓

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- C. static  
D. friend X (C++)

**Question 21**

What will happen when you attempt to compile and run this code?

public class MyMain

{

    public static void main(String argv) X → (W)

{

    System.out.println("Hello cruel world");

}

}

JVM entry point

- A. The compiler will complain that main is a reserved word and cannot be used for a class
- B. The code will compile and when run will print out "Hello cruel world"
- C. The code will compile but will complain at run time that no constructor is defined
- D. The code will compile but will complain at run time that main is not correctly defined

**Question 22**

You want to find out the value of the last element of an array. You write the following code. What will happen when you compile and run it.?

```
public class MyAr{ public static void main(String argv[]){ int[] i = new int[5]; System.out.println(i[5]); } }
```

- A. An error at compile time → no because syntax is correct
- B. An error at run time → index(5) out of bound
- C. The value 0 will be output → [0-4]
- D. The string "null" will be output → object

**Question 23**

What will happen when you attempt to compile and run the following code  
public class As

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```
{  
    int i = 10;  
    int j;  
    char z = 1;  
    boolean b;  
    public static void main(String argv[]){  
        As a = new As();  
        a.amethod();  
    }  
    public void amethod()  
    {  
        System.out.println(j);  
        System.out.println(b);  
    }  
}  
✓ A. Compilation succeeds and at run time an output of 0 and false  
B. Compilation succeeds and at run time an output of 0 and true  
C. Compile time error b is not initialised  
D. Compile time error z must be assigned a char value
```

**Question 24**

Which of the following will compile correctly?

- A. short myshort = 99S; X → S → not allowed for short literals, only
- B. String name = 'Excellent tutorial Mr Green'; X string → (" ") (L, F)
- C. char c = 17c; X ( ' ') Char → ( ' )
- D. int z = 015; → octal literal

**Question 25**

Which of the following are Java key words?

- A. double
- B. Switch X (switch)
- C. then X
- D. instanceof → (type check)

**Question 26**

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Given the following variables which of the following lines will compile without error?

```
String s = "Hello";
long l = 99;
double d = 1.11;
int i = 1;
int j = 0;
```

Java shift operation ( $<<$ )

- A.  $j = i << s;$  ✗
- B.  $j = i << j;$
- C.  $j = i << d;$  ✗
- D.  $j = i << l;$  ✗

compile - time error

**Question 27**

Given the following variables

```
char c = 'c';
int i = 10;
double d = 10;
long l = 1;
String s = "Hello";
```

Which of the following will compile without error?

- A.  $c = c + i;$  ✗
- B.  $s += i;$  → string concatenation → "Hello10"
- C.  $i += s;$  ✗
- D.  $c += s;$  ✗

**Question 28**

Which of the following are valid statements?

- A. `System.out.println(1+1);`
- B. `int i=2+'2';` → Unicode value = 50 → '2' → char literal
- C. `String s="on"+'one';` ✗
- D. `byte b=255;` ✗

**Question 29**

Which of the following statements are true?

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- A. A byte can represent between -128 to 127  $(-2^7 \text{ to } 2^7 - 1)$
- B. A byte can represent between -127 to 128
- C. A byte can represent between -256 to 256
- D. A char can represent between  $-2 \times 2^{16} \text{ to } 2^{16} - 1$

$\hookrightarrow 16 \text{ bit, } 0 \text{ to } 2^{16} - 1$   
 $= 0 \text{ to } 65535$

**Question 30** X

Which of the following will compile without error?

1)

`char c='1';  
System.out.println(c>>1);`

shift operation

2)

~~`Integer i=Integer("1");  
System.out.println(i>>1);`~~

} wrong syntax  
compile time error

3)

`int i=1;  
 System.out.println(i<<1);` → invalid

(>>) ←

4)

`int i=1;  
 System.out.println(i<<1);` left shift