

## Question 1

```
class GFM11{
    public static void main (String[] args) {
        int x,y,z;
        System.out.println(x+y+z);
    }
}
```

What is the result of attempting to compile and run the program? f

- a. Prints nothing.
- b. Prints an undefined value.
- c. Prints: null
- d. Prints: 0
- e. Run-time error
- f. Compile-time error
- g. None of the above

## Question 2

```
class GRC4 {public static void main(String[] args) {}} // 1
class GRC5 {public static void main(String []args) {}} // 2
class GRC6 {public static void main(String args[]) {}} // 3
```

What is the result of attempting to compile and run the above programs? g

- a. Compile-time error at line 1.
- b. Compile-time error at line 2.
- c. Compile-time error at line 3.
- d. An attempt to run GRC4 from the command line fails.
- e. An attempt to run GRC5 from the command line fails.
- f. An attempt to run GRC6 from the command line fails.
- g. None of the above

## Question 3

```
class GRC7 {public void main(String[] args) {}} // 1
class GRC8 {public void main(String []args) {}} // 2
class GRC9 {public void main(String args[]) {}} // 3
```

What is the result of attempting to compile and run the above programs? D,e,f

- a. Compile-time error at line 1.
- b. Compile-time error at line 2.
- c. Compile-time error at line 3.
- d. An attempt to run GRC7 from the command line results in an error at run-time.
- e. An attempt to run GRC8 from the command line results in an error at run-time.
- f. An attempt to run GRC9 from the command line results in an error at run-time.

## Question 4

```

class MCZ30 {
    public static void main (String[] args) {
        char a = '\t'; // 1
        char b = '\\'; // 2
        char c = '\?'; // 3
        char d = '\"'; // 4
        char e = '\'; // 5
    }
}

```

A compile-time error is generated at which line? b

- 2
- 3
- 4
- 5
- None of the above

## Question 5

```

class GRC1 {public static void main(String[] args) {}} // 1
class GRC2 {protected static void main(String[] args) {}} // 2
class GRC3 {private static void main(String[] args) {}} // 3

```

What is the result of attempting to compile each of the three class declarations and invoke each main method from the command line? E,f

- Compile-time error at line 1.
- Compile-time error at line 2.
- Compile-time error at line 3.
- An attempt to run GRC1 from the command line fails.
- An attempt to run GRC2 from the command line fails.
- An attempt to run GRC3 from the command line fails

## Question 6

```

class JJF4 {
    public static void main(String args[]) {
        System.out.print(Long.toHexString(Byte.MAX_VALUE)+" ");
        System.out.print(Long.toHexString(Character.MAX_VALUE)+" ");
        System.out.print(Long.toHexString(Short.MAX_VALUE));
    }
}

```

What is the result of attempting to compile and run the program? c

- Prints: f,ff,7f
- Prints: f,ff,ff
- Prints: 7f,ffff,7fff
- Prints: ff,ffff,ffff
- Prints: 7fff,ffffff,7fffff
- Prints: ffff,ffffff,ffffff
- Compile-time error

- h. Run-time error
- i. None of the above

## Question 7

```
class GFM12 {  
    static int x; // 1  
    public static void main(String[] args) { // 2  
        int y; // 3  
        System.out.println("x="+x); // 4  
        System.out.println("y="+y); // 5  
    }  
}
```

What is the result of attempting to compile and run the program? e

- a. Compile-time error at line 1.
- b. Compile-time error at line 2.
- c. Compile-time error at line 3.
- d. Compile-time error at line 4.
- e. Compile-time error at line 5.
- f. Run-time error
- g. None of the above

## Question 8

```
class GFM13 {  
    static byte a; static short b; static char c;  
    static int d; static long e; static String s;  
    public static void main(String[] args) {  
        System.out.println(a+b+c+d+e+s);  
    }  
}
```

What is the result of attempting to compile and run the program? c

- a. Prints: 00000null
- b. Prints: 00000
- c. Prints: 0null
- d. Prints: 0
- e. Prints: null
- f. Compile-time error
- g. Run-time error
- h. None of the above

## Question 9

```
class Identifiers {  
    int i1; // 1  
    int _i2; // 2  
    int i_3; // 3  
    int #i4; // 4  
    int $i5; // 5
```

```
int %i6; // 6
int i$7; // 7
int 8i; // 8
}
```

Compile-time errors are generated at which lines? D,f,h

- a. 1
- b. 2
- c. 3
- d. 4
- e. 5
- f. 6
- g. 7
- h. 8

## Question 10

```
class MCZ17 {
    public static void main (String[] args) {
        String a = "\n"; // 1
        String b = "\r"; // 2
        String c = "\u000a"; // 3 \u000a = new line
        String d = "\u000d"; // 4 \u000d = return
    }
}
```

Compile-time errors are generated at which lines? C,d

- a. 1
- b. 2
- c. 3
- d. 4

## Question 11

```
class MCZ18 {
    public static void main (String[] args) {
        String a = "abcd"; // 1
        String b = "'\u0041'"; // 2
        String c = "\u0041"; // 3
        String d = "\uD7AF"; // 4
        System.out.print(a+b+c+d); // 5
    }
}
```

A compile-time error is generated at which line? f

- a. 1
- b. 2
- c. 3
- d. 4
- e. 5
- f. None of the above

## Question 12

```
class MCZ24 {
    public static void main (String[] args) {
        char a = 061;        // 1
        char b = '\61';     // 2
        char c = '\061';    // 3
        char d = 0x0031;    // 4
        char e = '\u0031';  // 5
        System.out.print(""+a+b+c+d+e);
    }
}
```

A compile-time error is generated at which line? f

- a. 1
- b. 2
- c. 3
- d. 4
- e. 5
- f. None of the above

## Question 13

```
class MCZ25 {
    public static void main (String[] args) {
        char a = '\7';     // 1
        char b = '\61';    // 2
        char c = '\062';   // 3
        char d = '\x7';    // 4
        char e = '\x41';   // 5
        System.out.print(""+a+b+c+d+e);
    }
}
```

Compile-time errors are generated at which lines? D,e

- a. 1
- b. 2
- c. 3
- d. 4
- e. 5

## Question 14

Which of the following represent the full range of type char? B,d

- a. '\u0000' to '\u7fff'
- b. '\u0000' to '\uffff'
- c. 0 to 32767
- d. 0 to 65535
- e. -32768 to 32767
- f. -65536 to 65535

## Question 15

Which of the following represent the full range of type char? B,d,f

- a. -0x8000 to 0x7fff
- b. 0x0000 to 0xffff
- c. -0100000 to 077777
- d. 0 to 0177777
- e. 0 to 32767
- f. 0 to 65535
- g. -32768 to 32767

## Question 16

```
class JJF6 {  
    char c1 = 0xffff; // 1  
    char c2 = 0xffff; // 2  
    byte b1 = 0xffff; // 3  
    byte b2 = 0x7f; // 4  
    byte b3 = 0xff; // 5  
    byte b4 = -0x80; // 6  
}
```

Compile-time errors are generated at which lines? B,c,e

- a. 1
- b. 2
- c. 3
- d. 4
- e. 5
- f. 6

## Question 17

```
class MCZ22 {  
    public static void main (String[] args) {  
        // Insert code here.  
    }  
}
```

Which of the following lines will generate a compile-time error if inserted at the specified location? d

- a. char a = 0x0041;
- b. char b = '\u0041';
- c. char c = 0101;
- d. char d = -1;
- e. char e = (char)-1;
- f. None of the above

## Question 18

```

class GFM16 {
    static int m1 (int i1, int i2) {
        int i3;
        if (i1 > 0) {i3 = i1 + i2;}
        return i3;
    }
    public static void main(String[] args) {
        System.out.println(m1(1,2));
    }
}

```

What is the result of attempting to compile and run the program? c

- a. Prints: 0
- b. Prints: 1
- c. Compile-time error
- d. Run-time error
- e. None of the above

## Question 19

```

class GFM17 {
    int x; // 1
    public static void main(String[] args) { // 2
        int y = 0; // 3
        System.out.print(x+","); // 4
        System.out.print(y); // 5
    }
}

```

What is the result of attempting to compile and run the program? f

- a. Prints: 0,0
- b. Compile-time error at line 1.
- c. Compile-time error at line 1.
- d. Compile-time error at line 2.
- e. Compile-time error at line 3.
- f. Compile-time error at line 4.
- g. Compile-time error at line 5.
- h. Run-time error