Sun Certified Programmer for the Java Platform, Standard Edition 6

Exam A

QUESTION 1

You want to print 'Yes' if a character primitive contains 0 or 1 and 'No' if it contains 2 or more. Which of the given code fragments correctly achieve this? (Select all that apply)

```
A. if (c=='0' || c=='1')
        System.out.println("Yes");
   else if (c >= '2')
       System.out.println("No");
B. if (c=='0' && c=='1')
        System.out.println("Yes");
   else if (c \ge 2)
        System.out.println("No");
C. if (c='0' || c='1')
        System.out.println("Yes");
   else if (c >= '2')
        System.out.println("No");
D. if (c=="0" || c=="1")
        System.out.println("Yes");
   else if (c >= "2")
       System.out.println("No");
```

Correct Answer: A

QUESTION 2

Which of the given code fragments will compile correctly?

```
A. int i = 1;
if (i)
    System.out.println("Hello");
B. boolean a = true;
if (a=true)
    System.out.println("Hello");
C. int i = 1;
if (i=1)
    System.out.println("Hello");
D. float f = (float)1.0;
if (f==5.0f)
    System.out.println("Hello");
```

Correct Answer: BD

QUESTION 3

Given:

```
String[] elements = { "for", "tea", "too"};
String first = (elements.length > 0) ? elements[0] : null;
```

What is the result?

- A. Compilation fails
- B. An exception is throw at runtime
- C. The variable first is set to null
- D. The variable first is set to elements[0]

Correct Answer: D

QUESTION 4

```
Given:
```

int x = 12;

```
while (x < 10) {
     X--;
  System.out.println(x);
What is the result?
A. 0
B. 10
C. 12
D. Infinite loop. Never prints a value
Correct Answer: C
QUESTION 5
Given:
  public static void main(String[] args) {
      for(int i= 0; i \le 10; i++) {
          if (i > 6)
            break;
      System.out.println(i);
  }
What is the result?
A. 6
B. 7
C. 10
D. 11
E. Compilation fails
Correct Answer: E
QUESTION 6
Given:
public class Test {
       public static void main(String [] args) {
          int x = 5;
           boolean b1 = true;
           boolean b2 = false;
           if((x==4) && !b2) {
               System.out.print("1");
           System.out.print("2");
           if ((b2 = true) && b1) {
              System.out.print("3");
       }
}
What is the result?
A. 2
B. 3
C. 12
D. 23
E. 123
F. Compilaton fails
```

G. An exception is thrown at runtime

```
Correct Answer: D
QUESTION 7
Given:
public class ClassA {
    public static void main(String[] args){
        int value=0;
        boolean setting = true;
        String title="Hello";
        if (value || (setting && title == "Hello"))
        System.out.println(1);
        if (value == 1 & title.equals("Hello"))
       System.out.println(2);
}
What is the result?
A. 1
B. 2
C. Compilation fails
D. The code runs with no output
E. An exception is thrown at runtime
Correct Answer: C
QUESTION 8
Given:
11. public static void test(String str) {
       if(str == null \mid str.length() == 0) 
13.
          System.out.println("String is empty");
14.
15.
          System.out.println("String is not empty");
16.
17. }
And the invocation:
31. test(null);
What is the result?
A. An exception is thrown at runtime
B. "String is empty" is printed to output
C. Compilation fails because of au error in line 12.
D. "String is not empty" is printed to output.
Correct Answer: A
QUESTION 9
Given the following code:
double score = 0.70:
if (score > 0)
    if (score < 0.65)
         System.out.println("You don't pass the exam!!");
else
```

System.out.println("You pass the exam!!");

What is the result?

- A. Compilation fails
- B. An exception is thrown at runtime.
- C. You pass the exam!!
- D. You don't pass the exam!!
- E. None

Correct Answer: C

QUESTION 10

Given the following code:

```
double score = 0.70;

if (score > 0)

if (score < 0.65)

System.out.println("You don't pass the exam!!");

else System.out.println("You pass the exam!!");
```

What is the result?

- A. Compilation fails
- B. An exception is thrown at runtime.
- C. You pass the exam!!
- D. You don't pass the exam!!
- E. None

Correct Answer: C

QUESTION 11

Given the following code and assume that doStuff() returns true:

```
int y = 5;
int x = 2;

if ( ( (x > 3) && (y < 2) ) | doStuff() )
{
     System.out.println("true");
}
else
{
     System.out.println("false");
}</pre>
```

What is the result?

- A. Compilation fails
- B. An exception is thrown at runtime.
- C. true
- D. false

Correct Answer: C

QUESTION 12

Given the following code and assume that doStuff() returns true:

```
int y = 5;
int x = 2;
```

```
if ((x > 3) && (y < 2) \mid doStuff())
  System.out.println("true");
}
else
  System.out.println("false");
What is the result?
A. Compilation fails
B. An exception is thrown at runtime.
C. true
D. false
Correct Answer: D
QUESTION 13
Given the following code:
int x = 1;
switch(x)
{
 case 1: System.out.println("x is one");
 case 2: System.out.println("x is two");
 case 3: System.out.println("x is three");
System.out.println("out of the switch");
What is the ouput?
A. Compilation fails
B. An exception is thrown at runtime.
C. x is one
   x is two
   x is three
   out ot the switch
D. x is one
   out of the switch
Correct Answer: C
QUESTION 14
Given the following code:
long x = 1;
switch(x)
 case 1: System.out.println("x is one"); break;
 case 2: System.out.println("x is two"); break;
 case 3: System.out.println("x is three"); break;
System.out.println("out of the switch");
What is the ouput?
```

```
A. Compilation fails
```

B. An exception is thrown at runtime.

```
C. x is one
x is two
x is three
out ot the switch
```

D. x is one out of the switch

Correct Answer: A

QUESTION 15

Given the following code:

```
int x = 2;
switch(x)
{
    case 2: System.out.println("2");
    default: System.out.println("default");
    case 3: System.out.println("3");
    case 4: System.out.println("4");
}
```

What is the output?

- A. Compilation fails
- B. An exception is thrown at runtime.
- C. 2 default 3
- 4 D. 2

Correct Answer: C

QUESTION 16

Given the following code:

```
int x = 7;
switch(x)
{
    case 2: System.out.println("2");
    default: System.out.println("default");
    case 3: System.out.println("3");
    case 4: System.out.println("4");
}
```

What is the output?

- A. Compilation fails
- B. An exception is thrown at runtime.
- C. default
- D. default

3

Correct Answer: D

QUESTION 17

Given the following code:

```
int b = 3;
for (int a = 1; b != 1; System.out.println("iterate"))
{
   b = b - a;
}
What is the output?
A. Compilation fails
B. An exception is thrown at runtime
C. None
D. iterate
   iterate
Correct Answer: D
QUESTION 18
Given the following code:
for (int i = 0; i < 10; i++)
{
  if (i == 5)
  continue;
  System.out.print(i);
What is the output?
A. Compilation fails
B. An exception is thrown at runtime
C. 0123456789
D. 012346789
Correct Answer: D
QUESTION 19
Given the following code:
boolean isTrue = true;
 for (int i=0; i <5; i++)
 {
    while(isTrue) {
        System.out.println("Hello");
        break;
    System.out.println("Outer loop");
 System.out.println("Good-Bye");
What is the output?
A. Compilation fails
B. An exception is thrown at runtime
C. Hello
   Outer loop
   Hello
   Outer loop
   Hello
```

Outer loop Hello Outer loop

```
Hello
   Outer loop
   Good-Bye
D. Hello
   Good-Bye
Correct Answer: C
QUESTION 20
Given the following code:
boolean isTrue = true;
outer:
 for (int i=0; i <5; i++)
    while(isTrue) {
        System.out.println("Hello");
        break outer;
    System.out.println("Outer loop");
 System.out.println("Good-Bye");
What is the output?
A. Compilation fails
B. An exception is thrown at runtime
C. Hello
   Outer loop
   Good-Bye
D. Hello
   Good-Bye
Correct Answer: D
QUESTION 21
Given the following code:
 for (int i=0; i<5; i++) {
      for(int j=0; j<5; j++) {
         System.out.println("Hello");
         continue;
      System.out.println("outer");
  System.out.println("Good-Bye");
What is the output?
A. Compilation fails
B. An exception is thrown at runtime
```

C. Hello Hello

```
Hello
   Hello
   Hello
   outer
   Hello
   Hello
   Hello
   Hello
   Hello
   outer
   Good-Bye
D. Hello
   Hello
   Hello
   Hello
   Hello
   Good-Bye
Correct Answer: C
QUESTION 22
Given the following code:
outer:
 for (int i=0; i<5; i++) {
      for(int j=0; j<5; j++) {
         System.out.println("Hello");
         continue outer;
      }
System.out.println("outer");
  }
System.out.println("Good-Bye");
What is the output?
A. Compilation fails
B. An exception is thrown at runtime
C. Hello
   Hello
   Hello
   Hello
   Hello
   outer
   Hello
   Hello
```

```
Hello
   Hello
   Hello
   outer
   Hello
   Hello
   Hello
   Hello
   Hello
   outer
   Hello
   Hello
   Hello
   Hello
   Hello
   outer
   Hello
   Hello
   Hello
   Hello
   Hello
   outer
   Good-Bye
D. Hello
   Hello
   Hello
   Hello
   Hello
   Good-Bye
Correct Answer: D
QUESTION 23
What will be the result of executing the following code?

 boolean a = true;

2. boolean b = false;
3. boolean c = true;
4. if (a == true)
5. if (b == true)
6. if (c == true)
                             System.out.println("Some things are true in this world");
7. else
                            System.out.println("Nothing is true in this world!");
                              System.out.println("It's too confusing to tell what is true and what is false");
8. else if (a \&\& (b = c))
9.
                            System.out.println("Hey this won't compile");
    else
A. The code won't compile
B. "Some things are true in this world" will be printed
C. "Hey this won't compile" will be printed
D. None of these
Correct Answer: D
QUESTION 24
What will be the result of executing the following code?
public static void main(String args[])
      char digit = 'a';
      for (int i = 0; i < 10; i++)
           switch (digit)
                    case 'x':
```

{

- A. 100 will be printed 11 times
- B. 100 will be printed 10 times and then there will be a runtime exception
- C. The code will not compile because the variable i cannot be declared twice within the main() method
- D. The code will not compile because the variable j cannot be declared twice within the switch statement.
- E. None of these

Correct Answer: E

QUESTION 25

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

```
int Output = 10;
boolean b1 = false;
if((b1 == true) && ((Output += 10) == 20))
{
    System.out.println("We are equal " + Output);
}
else
{
    System.out.println("Not equal! " + Output);
}
```

- A. Compilation error, attempting to perform binary comparison on logical data type
- B. Compilation and output of "We are equal 10".
- C. Compilation and output of "Not equal! 20".
- D. Compilation and output of "Not equal! 10".

Correct Answer: D

QUESTION 26

Given:

```
3. public class Spock {
4.
       public static void main(String[] args) {
5.
           int mask = 0;
6.
           int count = 0;
7.
           if( ((5 < 7) || ( ++count < 10)) | mask < 10 )
                                                              mask = mask + 1;
8.
           if( (6 > 8) ^ false)
                                                            mask = mask + 10;
           if(!(mask > 1) && ++count > 1)
9.
                                                            mask = mask + 100;
10.
           System.out.println(mask + " " + count);
11.
       }
12.}
```

Which two are true about the value of mask and the value of count at line 10?

- A. mask is 0
- B. mask is 1

```
C. mask is 2
D. mask is 10
E. mask is greater than 10
F. count is 0
G. count is greater than 0
Correct Answer: CF
QUESTION 27
Given:
int x = 0;
int y = 10;
do {
    y--;
    ++x;
} while (x < 5);
System.out.print(x + ", " + y);
What is the result?
A. 5,6
B. 5,5
C. 6,5
D. 6,6
Correct Answer: B
QUESTION 28
Given:
11. public class Test {
12. public static void main(String [] args) {
13.
           int x = 5;
14.
           boolean b1 = true;
           boolean b2 = false;
15.
16.
17.
            if ((x == 4) && !b2 )
18.
                System.out.print("1 ");
19.
            System.out.print("2 ");
            if ((b2 = true) && b1 )
20.
21.
                System.out.print("3 ");
22.
      }
23. }
What is the result?
A. 2
B. 3
C. 12
D. 23
E. 123
F. Compilation fails.
G. An exception is thrown at runtime.
```

Correct Answer: D

QUESTION 29

Given:

```
public void go() {
```

```
String o = "";
z:
for(int x = 0; x < 3; x++) {
    for(int y = 0; y < 2; y++) {
        if(x==1) break;
        if(x==2 && y==1) break z;
        o = o + x + y;
    }
}
System.out.println(o);
}</pre>
```

What is the result when the go() method is invoked?

- A. 00
- B. 0001
- C. 000120
- D. 00012021
- E. Compilation fails.
- F. An exception is thrown at runtime.

Correct Answer: C

QUESTION 30

Given:

```
String[] elements = { "for", "tea", "too" };
String first = (elements.length > 0) ? elements[0] : null;
```

What is the result?

- A. Compilation fails.
- B. An exception is thrown at runtime.
- C. The variable first is set to null.
- D. The variable first is set to elements[0].

Correct Answer: D

QUESTION 31

Given:

```
public static void test(String str) {
    int check = 4;
    if (check = str.length()) {
        System.out.print(str.charAt(check -= 1) +", ");
    } else {
        System.out.print(str.charAt(0) + ", ");
    }
}
```

and the invocation:

```
test("four");
test("tee");
test("to");
```

What is the result?

- A. r, t, t,
- B. r, e, o,
- C. Compilation fails.
- D. An exception is thrown at runtime.

Correct Answer: C

QUESTION 32

Given:

```
public static void main(String[] args) {
    String str = "null";
    if (str == null) {
        System.out.println("null");
    } else (str.length() == 0) {
        System.out.println("zero");
    } else {
        System.out.println("some");
    }
}
```

What is the result?

- A. null
- B. zero
- C. some
- D. Compilation fails.
- E. An exception is thrown at runtime.

Correct Answer: D