Java Language basics

Question 1

- Which of the following are valid operators in java?

A. >>>
B. <<<
C. instanceof
D. <>

Question 1

- Which of the following are valid operators in java?

A. `>>>`
B. `<<<`
C. `instanceof`
D. `<>`

Question 2

```
public class  Floats {
  public static void main (String[]
  args) {
  float c = 1;   // 1
   double d = .1f;    // 2
   float e = .1;      // 3
  }
}
```

A compile-time error is generated at which line?

A. 1
B. 2
C. 3
D. None of the above

Question 2

```
public class  Floats {
  public static void main (String[]
  args) {
  float c = 1;    // 1
   double d = .1f;     // 2
   float e = .1;      // 3
  }
}
```

A compile-time error is generated at which line?

A. 1
B. 2
C. 3
D. None of the above

Question 3

```
public class Ints{
   public static void main(String[]
  args) {
    short s1 = 1;          //1
    final char c1 = 1;     //2
    byte b1 = s1;          //3
    byte b2 = c1;          //4
}}
```

A compile-time error is generated at which line?

A. 1
B. 2
C. 3
D. 4

Question 3

```
public class Ints{
   public static void main(String[]
  args) {
    short s1 = 1;          //1
    final char c1 = 1;     //2
    byte b1 = s1;          //3
    byte b2 = c1;          //4
}}
```

A compile-time error is generated at which line?

A. 1
B. 2
C. 3
D. 4

Question 4

```
public class Test {
  public static void main (String[]
  args) {
  byte b = 1;     // 1
  long l = 1000; // 2
              // 3
_____________
}}
```

What can you insert at line 3 so that the code compiles?

A. `b=l+1;`
B. `b += l;`
C. `l=b+1;`
D. `b=b+1;`

Question 4

```
public class Test {
  public static void main (String[]
  args) {
  byte b = 1;     // 1
  long l = 1000; // 2
                 // 3
_______________
}}
```

What can you insert at line 3 so that the code compiles?

A. `b=l+1;`
B. `b += l;`
C. `l=b+1;`
D. `b=b+1;`

Question 5

```
public class Bytes{
public static void main(String args[]) {
byte a =(byte)127,
  b=(byte)128,c=(byte)255,d = (byte)256;
System.out.println(a);
  System.out.println(b);
System.out.println(c);
  System.out.print(d);
}}
```

What numbers will the code display in each new line?

A. 127 ,128, 255 and 256

B. 127, 128, 255 and 0

C. 127, -1, -127 and 0

D. 127, -128, -1 and 0

Question 5

```
public class Bytes{
public static void main(String args[]) {
byte a =(byte)127,
  b=(byte)128,c=(byte)255,d = (byte)256;
System.out.println(a);
  System.out.println(b);
System.out.println(c);
  System.out.print(d);
}}
```

What numbers will the code display in each new line?

A. 127 ,128, 255 and 256

B. 127, 128, 255 and 0

C. 127, -1, -127 and 0

D. 127, -128, -1 and 0

Question 6

```
public  class Test{
int j; //line 1
public static void main(String str[]){
int i; // line 2
System.out.println(i); // line 3
System.out.println(j); //line 4
}}
```

The code above

A. **Compiles clean and displays 0 for both i and j**

B. **Generates compilation error at line 1**

C. **Generates compilation error at line 2**

D. **Generates compilation error at line 3**

Question 6

```
public  class Test{
int j; //line 1
public static void main(String str[]){
int i; // line 2
System.out.println(i); // line 3
System.out.println(j); //line 4
}}
```

The code above

A. Compiles clean and displays 0 for both i and j

B. Generates compilation error at line 1

C. Generates compilation error at line 2

D. Generates compilation error at line 3

Question 8

```
public class While
{
    public static void main(String str[]){
        while(1.1){
         System.out.println("Ok");
            }
         }
       }
```

What will happen when you compile or execute this code?

A. prints “Ok” continuously
B. Code will not compile
C. Code will generate an error at runtime
D. Nothing is displayed

Question 8

```
public class While
{
     public static void main(String
  str[]){
        while(1.1){
         System.out.println("Ok");
            }
         }
       }
```

What will happen when you compile or execute this code?

A. prints “Ok” continuously
B. Code will not compile
C. Code will generate an error at runtime
D. Nothing is displayed

Question 10

Which of the following is/are NOT valid variable declaration?

A.%abcd

B.$ab

C.string

D.main

Question 10

Which of the following is/are NOT valid variable declaration?

A. `%abcd`

B. `$ab`

C. `string`

D. `main`

Question 11

What happens when you compile and execute the code below?

```
public class Test {
      public static void main(String[] args){
        int x=011;
        System.out.println(x+1);
       }
     }
```

A. It prints 12
B. It prints 10
C. It prints 11
D. Compilation error

Question 11

What happens when you compile and execute the code below?

```
public class Test {
        public static void
main(String[] args){
        int x=011;
        System.out.println(x+1);
          }
        }
```

A. It prints 12

B. It prints 10

C. It prints 11

D. Compilation error

Question 12

What is the range of char?

A. -2^{15} to 2^{15}

B. -2^{15} -1 to 2^{15}

C. -2^{15} to 2^{15}-1

D. None of the above

Question 12

What is the range of char?

A. -2^{15} to 2^{15}

B. -2^{15} -1 to 2^{15}

C. -2^{15} to 2^{15}-1

D. None of the above

Question 13

Select the invalid assignments

```
A.byte b = (byte)(long)16.2;
B.int i = (int)16.2d;
C.boolean f = (boolean)0;
D.byte b = (int)16.2;
```

Question 13

Select the invalid assignments

A.
```
byte b = (byte)(long)16.2;
```

B.
```
int i = (int)16.2d;
```

C.
```
boolean f = (boolean)0;
```

D.
```
byte b = (int)16.2;
```

Question 14

```
public class Test {
        public static void
  main(String[] args){
     float f=22/7;
     System.out.printf("%5.2f",f);
         }
}
```

What does the code print?

A. 3.14
B. 3.00
C. 3.143
D. Compilation error

Question 14

```
public class Test {
        public static void
  main(String[] args){
     float f=22/7;
     System.out.printf("%5.2f",f);
         }
}
```

What does the code print?

A. 3.14
B. 3.00
C. 3.143
D. Compilation error

Question 15

```
public class Test {
    public static void main(String[] args){
       final int x=1;
      final String s="1";
      final char c='1';
        int y=1;
        switch (y){
         default: System.out.print("d"); break; //1
         case x: System.out.print("int"); break;
  //2
         case s: System.out.print("str"); break;
  //3
         case c: System.out.print("char"); break;
  //4
   }  } }
```

A. Code does not compile because of line 2,3,4.
B. Code does not compile because of line 3.
C. Code does compiles and displays "int"
D. If line 3 is commented code prints "d" and "int".

Question 15

```
public class Test {
    public static void main(String[] args){
       final int x=1;
      final String s="1";
      final char c='1';
        int y=1;
        switch (y){
         default: System.out.print("d"); break; //1
         case x: System.out.print("int"); break;
//2
         case s: System.out.print("str"); break;
//3
         case c: System.out.print("char"); break;
//4
 }  } }
```

A. Code does not compile because of line 2,3,4.
B. Code does not compile because of line 3.
C. Code does compiles and displays "int"
D. If line 3 is commented code prints "d" and "int".