1. Which are valid declarations? (Choose all that apply.)
   A. int $x;
   B. int 123;
   C. int _123;
   D. int #dim;
   E. int %percent;
   F. int *divide;
   G. int central_sales_region_Summer_2005_gross_sales;

2. Which of the following are invalid variable names in Java? (Choose all that apply.)
   A. $char
   B. 1MyNumber
   C. case
   D. _int

3. Consider the following line of code:
   short ohMy;
   What is the range of values that could be assigned to the variable ohMy?
   A. 0 to $2^{16} - 1$
   B. 0 to $2^{15} - 1$
   C. $-2^{15} - 1$ to $2^{15} - 1$
   D. $-2^{16} - 1$ to $2^{16} - 1$
   E. $-2^{15}$ to $2^{15} - 1$
   F. $-2^{15}$ to $2^{15}$

4. Consider the following line of code:
   char ohMy;
   What is the range of values that could be assigned to the variable ohMy?
   A. 0 to $2^{16} - 1$
   B. 0 to $2^{15} - 1$
   C. $-2^{15} - 1$ to $2^{15} - 1$
   D. $-2^{16} - 1$ to $2^{16} - 1$
   E. $-2^{15}$ to $2^{15} - 1$
   F. $-2^{15}$ to $2^{15}$

5. Consider the following line of code:
   byte ohMy;
   What is the range of values that could be assigned to the variable ohMy?
   A. 0 to $2^{16} - 1$
   B. 0 to $2^8 - 1$
   C. $-2^7$ to $2^7 - 1$
   D. $-2^7$ to $2^7$
6. Which of the following statements would not produce the compile error?
   A. char my_char = 'c';
   B. char your_char = 'int';
   C. char what = 'Hello';
   D. char what_char = "L";
   E. char ok = '㑖';

7. Consider the following declaration:
   boolean iKnow;
   The variable iKnow will be automatically initialized to which of the following?
   A. true
   B. false

8. Consider the following piece of code:
   float lu luckyNumber = 1.25;
   System.out.println ( "The value of luckyNumber: " + luckyNumber );
   What is the result?
   A. The value of luckyNumber::
   B. The value of luckyNumber: 1.25.
   C. This piece of code would not compile.
   D. This piece of code would compile, but give an error at execution time.

9. Given:
   class Scoop {
       static int thrower() throws Exception { return 42; }
       public static void main(String [] args) {
           try {
               int x = thrower();
           } catch (Exception e) {
               x++;
           } finally {
               System.out.println("x = " + ++x);
           }
       }
   }

   What is the result?
   A. x = 42
   B. x = 43
   C. x = 44
   D. Compilation fails.
   E. The code runs with no output

10. Bagaimana output program di bawah ini ? Beri penjelasan !
public class CobsUnicode{
    public static void main(String args[]){
        char a = 'a';
        char b = 'b';
        char c = 'c';
        String kata = String.format("%c%c%c", a, b, c);
        System.out.println("a: "+ a);
        System.out.println("b: "+ b);
        System.out.println("c: "+ c);
        System.out.println("kata: "+ kata);
    }
}

11.

In the following code fragment, what are the legal data types for the variable answer? (Choose all that apply.)
byte b=1;
char c=2;
short s=3;
int i=4;
float f=5f;
answer = b*c*s*i*f;

☐ a byte
☐ b char
☐ c short
☐ d int
☐ e float
☐ f double
☐ g long

12.

Which of the following code fragments generate compiler errors? (Choose all that apply.)

☐ a boolean boo = true; int i = boo;
☐ b byte b = 5; char c = b;
☐ c char c1 = 'a'; short s = c1;
☐ d long lon = 1L; float f = lon;
☐ e float f1 = 2L; long lon1 = f1;
13. Which of the following lines of code are valid Java statements? (Choose all that apply.)

- a byte b = 5;
- b byte b = 5L;
- c float f = 123;
- d float f = 123.4;
- e short s = -1;

14. Which of the following lines of code are valid Java statements? (Choose all that apply.)

- a short s = 11;
- b short s = 11L;
- c float f = 432;
- d float f = 432.1;
- e byte b = -1;

15. What is the result of attempting to compile and execute the following code?

```java
1. class Q {
2.     public static void main(String[] args) {
3.         byte b1 = -5;
4.         byte b2 = -b1;
5.         System.out.println("b2 = " + b2);
6.     }
7. }
```

- a Compiler error on line 3.
- b Compiler error on line 4.
- c Exception thrown on line 4.
- d The application compiles and runs without throwing any exception. The output is "b2 = 5".
- e The application compiles and runs without throwing any exception. The output is "b2 = -5".

```java
class PrimitifConversionAssignment2{
    public static void main(String [] arg) {
        double d;
        short s;
        d = 1.2345;
        s = d; // Assign a double to a short variable
        System.out.print("Nilai d: "+ s);
    }
}
```

17. Jika di kompilasi program ini terdapat error. Betulkan kesalahannya dan beri penjelasan!

```java
class PrimitifConversionMethodCall{
    public static void main(String [] arg) {
        short s = 9;
        int i = 10;
        float f = 11.1f;
        double d = 12.2;

        short x = s * 1;
        float y = f / d;
        double z = x * y;
    }
}
```

************* Selamat Mengerjakan *************