Praktikum

Dasar Pemrograman Java

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}

E. -2^{15} to $2^{15} - 1$
F. $-2^{8}$to $2^{8} - 1$

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 = '\u3456';

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.printIn("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 CobaUnicode{
    public static void main(String args[]){
        ch\u0061r a = 'a';
        char \u0062 = 'b';
        char c = '\u0063';
        String kata = "\u0061\u0062\u0063";

        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 application? (Choose all

```
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".

16. Jika di kompile program ini terdapat error. Betulkan kesalahannya dan beri penjelasan !

```
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 kompile program ini terdapat error. Betulkan kesalahannya dan beri penjelasan!

```
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 * i;
        float y = f / d;
        double z = x * y;
    }
}
```

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