



Concepts of Programming

Set – 1

1. Which of the following option leads to the portability and security of Java?

- a. Bytecode is executed by JVM
- b. The applet makes the Java code secure and portable
- c. Use of exception handling
- d. Dynamic binding between objects

2. Which of the following is a valid declaration of a char?

- a. `char ch = '\utea';`
- b. `char ca = 'tea';`
- c. `char cr = \u0223;`
- d. `char cc = '\itea';`

3. Evaluate the following Java expression, if x=3, y=5, and z=10:

`++z + y - y + z + x++`

- a. 24
- b. 23
- c. 20
- d. 25

4. Which of the following for loop declaration is not valid?

- a. `for (int i = 99; i >= 0; i / 9)`
- b. `for (int i = 7; i <= 77; i += 7)`
- c. `for (int i = 20; i >= 2; -i)`
- d. `for (int i = 2; i <= 20; i = 2* i)`

5. In which process, a local variable has the same name as one of the instance variables?
- a. Serialization
 - b. Variable Shadowing
 - c. Abstraction
 - d. Multi-threading
6. What is meant by the classes and objects that depends on each other?
- a. Tight Coupling
 - b. Cohesion
 - c. Loose Coupling
 - d. None of the above
7. What do you mean by nameless objects?
- a. An object created by using the new keyword.
 - b. An object of a superclass created in the subclass.
 - c. An object without having any name but having a reference.
 - d. An object that has no reference.
8. Which of these is an incorrect array declaration?
- a. `int arr[] = new int[5]`
 - b. `int [] arr = new int[5]`
 - c. `int arr[] = new int[5]`
 - d. `int arr[] = int [5] new`
9. Which of these is necessary to specify at time of array initialization?
- a. Row
 - b. Column
 - c. Both Row and Column
 - d. None of the mentioned

10. What is the range of byte data type in Java?

- a. -128 to 127
- b. -32768 to 32767
- c. -2147483648 to 2147483647
- d. None of the mentioned

11. From where break statement causes an exit?

- a. Only from innermost loop
- b. Terminates a program
- c. Only from innermost switch
- d. From innermost loops or switches

12. Given that Student is a class, how many reference variables and objects are created by the following code?

```
Student studentName, studentId;  
studentName = new Student();  
Student stud_class = new Student();
```

- a. Three reference variables and two objects are created.
- b. Two reference variables and two objects are created.
- c. One reference variable and two objects are created.
- d. Three reference variables and three objects are created.