

NPTEL » Programming in Java

Announcements

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Mentor

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Assignment 3

The due date for submitting this assignment has passed.

Due on 2020-10-07, 23:59 IST.

Assignment submitted on 2020-10-06, 21:37 IST

1) Which of following statement(s) is/are true?

1 point

- a. Instance methods can access instance variables and instance methods directly.
- b. Instance methods cannot access class variables and class methods directly.
- c. Class methods can access class variables and class methods directly.
- d. Class methods cannot access instance variables or instance methods directly—they must use an object reference.
- ✓ a.
- b.
- ✓ c.
- ✓ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

- a.
- C.
- d.

- 8PM - 10 PM)

```
public class Question
{
   public static int x = 7;
   public static void main(String[] args) {

        Question a = new Question ();
        Question b = new Question ();
        a.x = 1;
        b.x = 2;
        System.out.println(a.x+b.x+Question.x);
    }
}
```

1 point

What is the output of the above program?

```
a. 6
b. 10
c. 21
```

d. runtime error

2)

```
a.
b.
c.
d.

Yes, the answer is correct. Score: 1

Accepted Answers:
```

3)	Which of the following is called when a method having the same name as that of the class is defined?	5 1 point
	a. abstract	
	b. this	
	c. final	
	d. constructor	
	○ a.	
	○ b. ○ c.	
	d.	
Ye	s, the answer is correct.	
Ac	core: 1 core:	
d.		
4)	Hiding internal data from the outside world, and accessing it only through publicly exposed	1 point
	methods is known as data	
	a. Polymorphism	
	b. Encapsulation.	
	c. Inheritance. d. Duplication.	
	d. Duplication.	
	○ a.	
	© b. ○ c.	
	○ d.	
Ye	s, the answer is correct.	
	ore: 1 cepted Answers:	
b.		

```
1 point
   Consider the following piece of code in Java.
        class B {
              protected int method(int a, int b) {
                  return 0;
   Which of the following method(s) is/are declaration is/are not valid in a class that extends class B?
       a. public int method(int a, int b) {
                 return 0;
       b. private int method(int a, int b) {
                 return 0;
       c. static protected int method(int a, int b) {
                 return 0;
       d. public short method(int a, int b) {
                 return 0;
□ a.
b.
C
d.
Partially Correct.
Accepted Answers:
b.
C.
d.
                                                                                                         1 point
  Which of the following statement(s) is/are true?
       a. A final method cannot be overridden in a subclass.
       b. The advantage of private static methods is that they can be reused later if you need to
       reinitialize the class variable.
       c. Class methods cannot use this keyword as there is no instance for this to refer to.
       d. A final method can be overridden in a subclass.
```

```
✓ a.
 ✓ b.
 ✓ c.
 d.
Yes, the answer is correct.
Score: 1
Accepted Answers:
a.
b.
C.
                                                                                                                 1 point
   Advantage(s) of inheritance in Java programming is/are
       a. Code sharing
       b. Code maintainability
       c. Code reusability
       d. All of the above
 ○ a.
 Ob.
 О c.
 d.
Yes, the answer is correct.
Score: 1
Accepted Answers:
d.
                                                                                                                 1 point
   Consider the following class definition:
        class Student extends String {
   Which of the following statement(s) is/ are TRUE?
        a. Code will not compile because the body is not defined.
        b. Code will not compile because the class is not declared as public.
        c. Code will not compile because of the super class String.
        d. Code will compile successfully.
 ○ a.
 Ob.
 C.
```

```
Od.
Yes, the answer is correct.
Accepted Answers:
9)
                                                                                                             1 point
       public class Test1{
            Test1() {
               Test1 obj1 = new Test1();
      public static void main(String []args) {
           Test1 obj = new Test1();
            System.out.println("Hello");
   Which of the following statements is/ are true?
       a. Hello
       b. Program will compile successfully.
       c. There will be a compile-time error.
       d. The program will give a runtime error.
 □ a.
 b.
 C.
 ☑ d.
Partially Correct.
Score: 0.5
Accepted Answers:
b.
d.
10) Which of the following statement(s) is/are true?
                                                                                                             1 point
       a. Hiding internal data from the outside world, and accessing it only through publicly
           exposed methods is known as data encapsulation.
       b. Common behavior can be defined in a superclass and inherited into a subclass using
          the extends keyword.
       c. The term "class variable" is another name for non-static field.
       d. A local variable stores temporary state; it is declared inside a method.
```

☑ a.
✓ b.
c.
☑ d.
Yes, the answer is correct. Score: 1
Accepted Answers:
a.
b.
d.