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[NPTEL \(https://swayam.gov.in/explorer?ncCode=NPTEL\)](https://swayam.gov.in/explorer?ncCode=NPTEL) » [Programming in Java \(course\)](#)
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Unit 5 - Week 3 :

Register for
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Course outline

How does an NPTEL
online course work?

Week 0 :

Week 1 :

Week 2 :

Week 3 :

☐ Lecture 11 : Java
Static Scope Rule
(unit?
unit=4&lesson=25)

☐ Lecture 12 :
Demonstration-V
(unit?
unit=4&lesson=26)

☐ Lecture 13 :
Inheritance (unit?
unit=4&lesson=27)

☐ Lecture 14 :
Demonstration-VI
(unit?
unit=4&lesson=28)

☐ Lecture 15 :
Information
Hiding (unit?
unit=4&lesson=29)

☒ **Quiz :**
Assignment 3
(assessment?
name=95)

Assignment 3

Your last recorded submission was on 2020-02-16, 12:53 IST

Due date: 2020-02-19, 23:59 IST.

1)

1 point

Which of these is used by operating system to manage the Recursion in Java?

- a. Array
- b. Stack
- c. Queue
- d. Tree

- ☐ a.
- ☒ b.
- ☐ c.
- ☐ d.

2)

1 point

Which inheritance in Java programming is not supported?

- a. Multiple inheritance using classes.
- b. Multiple inheritance using interfaces.
- c. Multilevel inheritance.
- d. Single inheritance.

- ☒ a.
- ☐ b.
- ☐ c.
- ☐ d.

3)

1 point

● Java Week 3: Q1
(/noc20_cs08/progassignment?name=107)

● Java Week 3: Q2
(/noc20_cs08/progassignment?name=108)

● Java Week 3: Q3
(/noc20_cs08/progassignment?name=109)

● Java Week 3: Q4
(/noc20_cs08/progassignment?name=110)

● Java Week 3: Q5
(/noc20_cs08/progassignment?name=111)

○ Feedback For
Week 3 (unit?
unit=4&lesson=124)

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Assignment Solution

How can a protected member be accessed?

- a. Accessible only within the class.
- b. Accessible only within package.
- c. Accessible within the package as well as outside the package but through inheritance only.
- d. Accessible to everywhere.

- ☐ a.
- ☐ b.
- ☒ c.
- ☐ d.

4)

1 point

For each description on the left, find the best matching modifier on the right. You may use a choice more than once or not at all.

- | | |
|---|----------------------|
| 1. Hides the instance variable from code in other files. | A. private |
| 2. Hides the method from code in other files. | B. public |
| 3. Hides the subclass from code in other files. | C. final |
| 4. Exposes the API method to code in other files. | D. static |
| 5. Prevents the value of the instance variable from being Changed once initialized. | E. none of the above |

- a. 1-A,2-A,3-C,4-D,5-E
- b. 1-A,2-A,3-A,4-B,5-C
- c. 1-C,2-B,3-A,4-A,5-D
- d. None of Above

- ☐ a.
- ☒ b.
- ☐ c.
- ☐ d.

5)

1 point

If there is an abstract method in a class, then which of the following is/are NOT true.

- a. The class should be declared abstract.
- b. No object of the class can be created.
- c. Any subclass of the class may or may not be abstract class.
- d. A final class can have abstract method(s) and an abstract class can be declared final.

- ☐ a.
- ☐ b.
- ☐ c.
- ☒ d.

6)

1 point

Which of the following statement is true regarding the order of execution of constructors in an inheritance hierarchy?

- a. Base class constructor will be called followed by the derived class constructor.
- b. Derived class constructor will be called followed by the base class constructor.
- c. Only Base class constructor will be called.
- d. Only derived class constructor will be called.

- ☒ a.
☐ b.
☐ c.
☐ d.

7)

1 point

```
public class B1 {  
    private static int i = 0;  
    private static int j = 0;  
  
    public static void main(String[] args) {  
        int i = 3;  
        int k = 4;  
  
        {  
            int j = 2;  
            System.out.println("i + j is "+i +j);  
        }  
  
        k = i + j;  
        System.out.println(k);  
        System.out.println(j);  
    }  
}
```

What is the output of the above program?

- a. i + j is 32
3
0
b. i + j is 5
7
2
c. i + j is 32
7
2
d. i + j is 5
3
0

- ☒ a.
☐ b.
☐ c.
☐ d.

8)

1 point

Which of this keyword can be used in a sub class to call the constructor of super class?

- a. super
b. this
c. extent
d. extends

- ☒ a.
☐ b.
☐ c.
☐ d.

9)

1 point

Consider the composition of two classes as given below.

```
Public class Question5{
    public static void main(String args[]){
        String question= "Which course have you opted?";
        System.out.print(Answer.submit(question));
    }
}

class Answer{
    static String answer = "Programming with Java";
    static String submit(String question){
        return ("The answer to the question, "+question+" is "+answer);
    }
}
```

Which of the following option is true about the above program?

- a. Error: *String cannot be a method return type like void, int, char, etc.; as it is a class.*
- b. Error: *Non-static variable 'answer' cannot be referenced from a static context.*
- c. Output: The answer to the question, Which course have you opted? is Programming with Java
- d. Error: *Compilation error as variable 'question' is not static.*

- ☐ a.
- ☐ b.
- ☒ c.
- ☐ d.

10)

1 point

Consider the class composition as shown in the following.

```
public class Student{
    public static void main(String[]args){
        Question12 question =new Question12();
        System.out.print(question.q);
    }
}

class Question12{
    final String q = "Questions ";
    private String a = "Answers";
}
```

Select the correct option(s) as per your understanding of the above-mentioned code.

- a. This code doesn't maintain encapsulation.
- b. This code maintains encapsulation.
- c. Variable 'q' can be modified using the 'question' object in Student class.
- d. Variable 'a' can be accessed using the 'question' object in Student class.

- ☐ a.
- ☒ b.
- ☐ c.
- ☐ d.

You may submit any number of times before the due date. The final submission will be considered for grading.

Submit Answers

