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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » **Programming in Java (course)**

Announcements (announcements)

About the Course (https://swayam.gov.in/nd1_noc20_cs08/preview) Ask a Question (forum)

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Unit 5 - Week 3 :

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Thank you for taking the Assignment 3.

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)

Assignment 3

Your last recorded submission was on 2020-02-10, 15:21 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

Assessment submitted.
X

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)

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=

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

Java Week 3:
Q5
(/noc20_cs08
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**Assignment
Solution**

Which inheritance in Java programming is not supported?

- Multiple inheritance using classes.
- Multiple inheritance using interfaces.
- Multilevel inheritance.
- Single inheritance.

- ☒ a.
☐ b.
☐ c.
☐ d.

3)

How can a protected member be accessed?

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

- ☐ a.
☐ b.
☒ c.
☐ d.

4)

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 |

- 1-A,2-A,3-C,4-D,5-E
- 1-A,2-A,3-A,4-B,5-C
- 1-C,2-B,3-A,4-A,5-D
- None of Above

- ☐ a.
☒ b.
☐ c.
☐ d.

1 point

1 point

Assessment submitted.

X

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);  
    }  
}
```

Assessment submitted.

X

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

Assessment submitted.

X

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.

Assessment submitted.

X

☐

c.

☐

d.

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

Submit Answers