Assignment 3

The due date for submitting this assignment has passed. Due on 2020-02-19, 23:59 IST. As per our records you have not submitted this assignment.

1) 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.

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
   b.

2) Which inheritance in Java programming is not supported?  
   a. Multiple inheritance using classes.  
   b. Multiple inheritance using interfaces.  
   c. Multilevel inheritance.  
   d. Single inheritance.
Lecture 15:
Information Hiding (unit? unit=4&lesson=29)

Quiz:
Assignment 3 (assessment? name=95)

Java Week 3:
Q1
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Java Week 3:
Q2
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Q5
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Feedback For Week 3 (unit? unit=4&lesson=124)

Week 4:

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Week 7:

Week 8:

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Week 11:

Week 12:

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Assignment Solution

☐ a.
☐ b.
☐ c.
☐ d.

No, the answer is incorrect.
Score: 0
Accepted Answers:

a.

3) 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.

No, the answer is incorrect.
Score: 0
Accepted Answers:

a.

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

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.

No, the answer is incorrect.
Score: 0
Accepted Answers:

b.

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.

No, the answer is incorrect.
Score: 0
Accepted Answers:
d.

6) 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.

No, the answer is incorrect.
Score: 0
Accepted Answers:
a.
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

No, the answer is incorrect.
Score: 0
Accepted Answers:
a.

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.
9) Consider the composition of two classes as given below.

```java
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.

No, the answer is incorrect.
Score: 0
Accepted Answers:
c.

10)
Consider the class composition as shown in the following.

```java
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.

No, the answer is incorrect.
Score: 0
Accepted Answers:

b.