Inheritence -Java Programming MCQ Questions and Answers

1. Which is true?

A. "X extends Y" is correct if and only if X is a class and Y is an interface

B. "X extends Y" is correct if and only if X is an interface and Y is a class

C. "X extends Y" is correct if X and Y are either both classes or both interfaces

D. "X extends Y" is correct for all combinations of X and Y being classes and/or interfaces

Answer & Solution | Discuss in Board (https://www.examveda.com/java-programming-on-inheritence-1)

Answer & Solution

Answer: Option C
Solution:
A is incorrect because classes implement interfaces, they don't extend them. B is incorrect because interfaces only "inherit from" other interfaces. D is incorrect based on the preceding rules.

Which of the following is true?

1. A class can extend more than one class.

2. A class can extend only one class but many interfaces.

3. An interface can extend many interfaces.

4. An interface can implement many interfaces.

5. A class can extend one class and implement many interfaces.

A. ○ **1 and 2**

B. ○ **2 and 4**

C. ○ **3 and 5**

D. ○ **3 and 4**

E. ○ **2 and 5**

Answer & Solution

Discuss in Board (https://www.examveda.com/which-of-the-following-is-true-java-programming-on-inheritence-2)

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Save for Later

Answer & Solution

Answer: Option C

No explanation is given for this question **Let's Discuss on Board (https://www.examveda.com/which-of-the-following-is-true-java-programming-on-inheritence-2)**

3. What is the result of compiling and running the following code?

```
class Base{
        public Base(){
                System.out.print("Base");
        }
}
public class Derived extends Base{
        public Derived(){
                this("Examveda");
                System.out.print("Derived");
        }
        public Derived(String s){
                System.out.print(s);
        }
        public static void main(String[] args){
                new Derived();
        }
}
```

A. ○ **ExamvedaDerived**

B. ○ **ExamvedaBaseDerived**

C. ○ **BaseExamvedaDerived**

D. ○ **ExamvedaDerivedBase**

E. ○ **Compilation Error**

Answer & Solution

Discuss in Board (https://www.examveda.com/what-is-the-result-of-compiling-and-running-the-following-code-java-programming-on-inheritence-3)

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Answer & Solution

Answer: Option C
Solution:
1. new Derived(); statement executes and invoke the non-parametrized constructor of derived class i.e.
public Derived();
2. As Derived class is a subclass of class Base so super(); executes and calls the super class constructor and prints **"Base"**.

3. After that
this("Examveda"); executes and call the parametrized constructor
public Derived(String s); of Derived class as this always refer to the current object. So, it prints **"Examveda"**.
4. Lastly the print statement executes and prints **"Derived"**
Hence output is **BaseExamvedaDerived**.

4. What is the output of the following program code?

```
abstract class C1{
        public C1(){
                System.out.print(1);
        }
}
class C2 extends C1{
        public C2(){
                System.out.print(2);
        }
}
class C3 extends C2{
        public C3(){
                System.out.println(3);
        }
}
public class Test{
        public static void main(String[] a){
                new C3();
        }
}
```

A. ○ **12**

B. ○ **23**

C. ○ **123**

D. ○ **321**

Answer & Solution

Discuss in Board (https://www.examveda.com/what-is-the-output-of-the-following-program-code-java-programming-on-inheritence-4)

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Answer & Solution

Answer: Option C

No explanation is given for this question **Let's Discuss on Board (https://www.examveda.com/what-is-the-output-of-the-following-program-code-java-programming-on-inheritence-4)**

5. The concept of multiple inheritance is implemented in Java by

I. Extending two or more classes.

II. Extending one class and implementing one or more interfaces.

III. Implementing two or more interfaces.

A. ○ **Only (II)**

B. ○ **(I) and (II)**

C. ○ **(II) and (III)**

D. ○ **Only (I)**

E. ○ **Only (III)**

Answer & Solution

Discuss in Board (https://www.examveda.com/the-concept-of-multiple-inheritance-is-implemented-in-java-by-java-programming-on-inheritence-5)

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Save for Later

Answer & Solution

Answer: Option C

No explanation is given for this question **Let's Discuss on Board (https://www.examveda.com/the-concept-of-multiple-inheritance-is-implemented-in-java-by-java-programming-on-inheritence-5)**

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