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Inheritance -Java Programming MCQ Questions and Answers

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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](#)

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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

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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/which-of-the-following-is-true-java-programming-on-inheritance-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](#)

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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 \(https://www.examveda.com/what-is-the-output-of-the-following-program-code-java-programming-on-inheritance-4\)](https://www.examveda.com/what-is-the-output-of-the-following-program-code-java-programming-on-inheritance-4)[Share \(http://www.facebook.com/share.php?u=https://www.examveda.com/what-is-the-output-of-the-following-program-code-java-programming-on-inheritance-4\)](http://www.facebook.com/share.php?u=https://www.examveda.com/what-is-the-output-of-the-following-program-code-java-programming-on-inheritance-4)[!\[\]\(74d4806277d7e73349d8e8c0897931e9_img.jpg\) Save for Later](#)

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-inheritance-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

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Answer & Solution

Answer: Option C

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