

# Rajalakshmi Engineering College

Name: R.Mohana Shri

Email: 241801167@rajalakshmi.edu.in

Roll no: 241801167

Phone: 7305977564

Branch: REC

Department: AI & DS - Section 2

Batch: 2028

Degree: B.E - AI & DS

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## 2024\_28\_III\_OOPS Using Java Lab

### REC\_2028\_OOPS using Java\_Week 7\_MCQ

Attempt : 1

Total Mark : 15

Marks Obtained : 8

#### **Section 1 : MCQ**

1. What is the output of the following code?

```
interface A {  
    static void display(){  
        System.out.println("Static method in A");  
    }  
}
```

```
class B implements A {  
    static void display() {  
        System.out.println("Static method in B");  
    }  
}
```

```
public class Main {  
    public static void main(String[] args) {
```

```
        B.display();  
    }  
}
```

**Answer**

Compilation Error

**Status : Wrong**

**Marks : 0/1**

2. What is the output of the following code?

```
interface X {  
    default void show() {  
        System.out.println("X's Default Method");  
    }  
}
```

```
interface Y {  
    default void show() {  
        System.out.println("Y's Default Method");  
    }  
}
```

```
class Z implements X, Y {  
    public void show() {  
        System.out.println("Z's Method");  
    }  
}
```

```
public class Main {  
    public static void main(String[] args) {  
        Z obj = new Z();  
        obj.show();  
    }  
}
```

**Answer**

Compilation Error

**Status : Wrong**

**Marks : 0/1**

3. What is the output of the following code?

```
interface MathOperations {  
    static int square(int x) {  
        return x * x;  
    }  
}  
  
public class Main {  
    public static void main(String[] args) {  
        System.out.println(MathOperations.square(5));  
    }  
}
```

**Answer**

Compilation error

**Status : Wrong**

**Marks : 0/1**

4. Which of the following statements is true regarding default methods in Java interfaces?

**Answer**

Default methods must be declared as final.

**Status : Wrong**

**Marks : 0/1**

5. How do you call a static method from an interface MyInterface?

**Answer**

```
new MyInterface().staticMethod();
```

**Status : Wrong**

**Marks : 0/1**

6. Consider a class implementing an interface and extending a class, both having a method with the same name. Which method gets called?

**Answer**

The method from the superclass

Status : Correct

Marks : 1/1

7. Can a Java interface contain both default and static methods?

**Answer**

Yes, an interface can have both default and static methods.

Status : Correct

Marks : 1/1

8. If a class implements two interfaces that have the same default method, what must the class do?

**Answer**

The class must override the method to resolve ambiguity.

Status : Correct

Marks : 1/1

9. What is the primary purpose of static methods in Java interfaces?

**Answer**

They allow an interface to provide helper methods without requiring an implementing class.

Status : Correct

Marks : 1/1

10. What is the output of the following code?

```
interface A {  
    default void show() {  
        System.out.println("A's Default Method");  
    }  
}
```

```
interface B {  
    default void show() {
```

```
        System.out.println("B's Default Method");
    }
}
```

```
class C implements A, B {
    public void show() {
        A.super.show();
    }
}
```

```
public class Main {
    public static void main(String[] args) {
        C obj = new C();
        obj.show();
    }
}
```

**Answer**

A's Default Method

**Status : Correct**

**Marks : 1/1**

11. How can a class explicitly call a default method from an interface if there is a naming conflict?

**Answer**

Using InterfaceName.super.methodName();

**Status : Correct**

**Marks : 1/1**

12. What happens when an implementing class does not override a default method from an interface?

**Answer**

The class must declare itself abstract.

**Status : Wrong**

**Marks : 0/1**

13. Which of the following statements about Java interfaces is true?

**Answer**

An interface cannot contain default or static methods.

**Status : Wrong**

**Marks : 0/1**

14. Which of the following is the correct way to declare an interface in Java?

**Answer**

```
interface Vehicle { void start();}
```

**Status : Correct**

**Marks : 1/1**

15. What is the output of the following code?

```
interface A {
    default void show() {
        System.out.println("A's Default Method");
    }
}
```

```
class B {
    public void show() {
        System.out.println("B's Method");
    }
}
```

```
class C extends B implements A {
}
```

```
public class Main {
    public static void main(String[] args) {
        C obj = new C();
        obj.show();
    }
}
```

**Answer**

B's Method

**Status :** Correct

**Marks :** 1/1