



SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107



An Autonomous Institution

Accredited by NAAC – UGC with 'A' Grade

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

23CSB101

OBJECT ORIENTED PROGRAMMING

UNIT II

INHERITANCE, PACKAGES AND INTERFACES

METHOD OVERRIDING

By

M.Kanchana

Assistant Professor/CSE



MCQ



- What happens if we don't override an abstract method in a subclass?
- A) The program will run without any issues
 - B) The subclass will remain abstract and must be declared as abstract
 - C) The compiler will generate a warning but allow compilation
 - D) The subclass can be instantiated normally



MCQ



What happens if we don't override an abstract method in a subclass?

- A) The program will run without any issues
- B) The subclass will remain abstract and must be declared as abstract**
- C) The compiler will generate a warning but allow compilation
- D) The subclass can be instantiated normally



MCQ



What is the key characteristic of an abstract class in Java?

- A) It cannot contain any concrete methods
- B) It must have at least one abstract method
- C) It can be instantiated directly
- D) It cannot have constructors



MCQ



What is the key characteristic of an abstract class in Java?

- A) It cannot contain any concrete methods
- B) It must have at least one abstract method**
- C) It can be instantiated directly
- D) It cannot have constructors



MCQ



What will be the output of the following code?

```
abstract class Animal {
    void eat() {
        System.out.println("Animals eat food");
    }
    abstract void sound();
}

class Dog extends Animal {
    void sound() {
        System.out.println("Dog barks");
    }
}

public class Main {
    public static void main(String[] args) {
        Animal obj = new Dog();
        obj.eat();
        obj.sound();
    }
}
```



MCQ



OUTPUT

Animals eat food
Dog barks



MCQ



```
class A {  
    void show() {  
        System.out.println("Class A method");  
    }  
}
```

```
class B extends A {  
    void show() {  
        System.out.println("Class B method");  
    }  
}
```

```
class C extends B {  
    void show() {  
        System.out.println("Class C method");  
    }  
}
```

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




MCQ



OUTPUT

Class C method



MCQ



```
class Exam {  
    final void rules() {  
        System.out.println("Students must follow  
exam rules");  
    }  
}
```

```
class OnlineExam extends Exam {  
    void rules() {  
        System.out.println("Online exam has different  
rules"); }  
}
```

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

Will it print output or error?



MCQ



```
abstract class Animal {  
    Animal() {  
        System.out.println("Animal is created");  
    }  
    abstract void makeSound();  
}
```

```
class Dog extends Animal {  
    Dog() {  
        System.out.println("Dog is created"); }  
    }  
    void makeSound() {  
        System.out.println("Woof Woof");  
    }  
}
```

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



MCQ



OUTPUT:

Animal is created

Dog is created

Woof Woof



MCQ



```
class Parent {
    static void show() {
        System.out.println("Parent class static method");
    }
}
class Child extends Parent {
    static void show() {
        System.out.println("Child class static method");
    }
}
public class Main {
    public static void main(String[] args) {
        Parent obj = new Child();
        obj.show();
    }
}
```



MCQ



- A) Prints: Child class static method
- B) Prints: Parent class static method
- C) Compilation error
- D) Runtime error

Static methods are not overridden, but hidden. Method calls depend on reference type (Parent obj), not runtime object (Child).



THANK YOU