

# Rajalakshmi Engineering College

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

### REC\_2028\_OOPS using Java\_Week 8\_MCQ

Attempt : 1  
Total Mark : 15  
Marks Obtained : 15

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

1. What is the purpose of a custom exception in Java?

**Answer**

To create user-defined exceptions for specific scenarios

**Status : Correct**

**Marks : 1/1**

2. What will be the output for the following code?

```
class NegativeBalanceException extends Exception {  
    public NegativeBalanceException(String message) {  
        super(message);  
    }  
}
```

```
class Test {  
    public static void main(String[] args) {  
        try {  
            double balance = -500;  
            if (balance < 0) {  
                throw new NegativeBalanceException("Balance cannot be  
negative");  
            }  
        } catch (NegativeBalanceException e) {  
            System.out.println("Error: " + e.getMessage());  
        }  
    }  
}
```

**Answer**

Error: Balance cannot be negative

**Status : Correct**

**Marks : 1/1**

3. How do you create an unchecked custom exception?

**Answer**

By extending RuntimeException

**Status : Correct**

**Marks : 1/1**

4. what is the output of the following code?

```
class MyException extends Exception {  
    public MyException(String message) {  
        super(message);  
    }  
}
```

```
class Test {  
    static void check() throws MyException {  
        throw new MyException("Custom Exception Occurred");  
    }  
}
```

```
public static void main(String[] args) {  
    try {  
        check();  
    } catch (Exception e) {  
        System.out.println(e.getMessage());  
    }  
}
```

**Answer**

Custom Exception Occurred

**Status : Correct**

**Marks : 1/1**

5. Which of the following is true about custom exceptions?

**Answer**

Custom exceptions must extend either Exception or RuntimeException

**Status : Correct**

**Marks : 1/1**

6. What will be the output for the following code?

```
import java.io.*;
```

```
class OutOfStockException extends Exception {  
    public OutOfStockException(String message) {  
        super(message);  
    }  
}
```

```
class Test {  
    public static void main(String[] args) {  
        try {  
            int stock = 0;  
            if (stock == 0) {  
                throw new OutOfStockException("Item is out of stock");  
            }  
        } catch (OutOfStockException e) {  
            System.out.println(e.getMessage());  
        }  
    }  
}
```

```
        }
    } catch (OutOfStockException e) {
        System.out.println(e.getMessage());
    }
}
```

**Answer**

Item is out of stock

**Status : Correct**

**Marks : 1/1**

7. what is the output of the following code?

```
class MyException extends Exception {
    public MyException(String message) {
        super(message);
    }
}
```

```
class Test {
    public static void main(String[] args) {
        try {
            throw new MyException("Error occurred");
        } catch (MyException e) {
            System.out.println(e);
        }
    }
}
```

**Answer**

MyException: Error occurred

**Status : Correct**

**Marks : 1/1**

8. What will be the output for the following code?

```
import java.io.*;
```

```
240701360 class UnderageException extends Exception {  
240701360     public UnderageException(String message) {  
240701360         super(message);  
240701360     }  
240701360 }  
240701360  
240701360 class Test {  
240701360     public static void main(String[] args) {  
240701360         try {  
240701360             int age = 17;  
240701360             if (age < 18) {  
240701360                 throw new UnderageException("Underage, cannot proceed");  
240701360             }  
240701360         } catch (UnderageException e) {  
240701360             System.out.println(e.getMessage());  
240701360         }  
240701360     }  
240701360 }
```

**Answer**

Underage, cannot proceed

**Status :** Correct

**Marks :** 1/1

9. What will be the output for the following code?

```
240701360 class InvalidUsernameException extends Exception {  
240701360     public InvalidUsernameException(String message) {  
240701360         super(message);  
240701360     }  
240701360 }  
240701360  
240701360 class Test {  
240701360     public static void main(String[] args) {  
240701360         try {  
240701360             String username = "abc";  
240701360             if (username.length() < 5) {  
240701360                 throw new InvalidUsernameException("Username must be at  
240701360 least 5 characters long");  
240701360             }  
240701360         }  
240701360     }
```

```
        }
    } catch (InvalidUsernameException e) {
        System.out.println(e.getMessage());
    }
}
```

**Answer**

Username must be at least 5 characters long

**Status : Correct**

**Marks : 1/1**

10. Which keyword is used to explicitly throw a custom exception?

**Answer**

throw

**Status : Correct**

**Marks : 1/1**

11. What will be the output for the following code?

```
class InvalidVotingAgeException extends Exception {
    public InvalidVotingAgeException(String message) {
        super(message);
    }
}

class Test {
    public static void main(String[] args) {
        try {
            int age = 15;
            if (age < 18) {
                throw new InvalidVotingAgeException("You are not eligible to
vote");
            }
            System.out.println("Eligible to vote");
        } catch (InvalidVotingAgeException e) {
            System.out.println(e.getMessage());
        }
    }
}
```

```
240701360  
}
```

**Answer**

You are not eligible to vote

**Status : Correct**

**Marks : 1/1**

12. What will happen if a checked custom exception is thrown inside a method without being caught or declared?

**Answer**

Compilation Error

**Status : Correct**

**Marks : 1/1**

13. What will be the output for the following code?

```
import java.io.*;  
  
class TemperatureTooHighException extends Exception {  
    public TemperatureTooHighException(String message) {  
        super(message);  
    }  
  
    class Test {  
        public static void main(String[] args) {  
            try {  
                int temperature = 110;  
                if (temperature > 100) {  
                    throw new TemperatureTooHighException("Temperature too  
high");  
                }  
            } catch (TemperatureTooHighException e) {  
                System.out.println(e.getMessage());  
            }  
        }  
    }  
}
```

```
}
```

**Answer**

Temperature too high

**Status : Correct**

**Marks : 1/1**

14. What will be the output for the following code?

```
import java.io.*;  
  
class NegativeAgeException extends Exception {  
    public NegativeAgeException(String message) {  
        super(message);  
    }  
}  
  
class Test {  
    public static void main(String[] args) {  
        try {  
            int age = -5;  
            if (age < 0) {  
                throw new NegativeAgeException("Age cannot be negative");  
            }  
        } catch (NegativeAgeException e) {  
            System.out.println(e.getMessage());  
        }  
    }  
}
```

**Answer**

Age cannot be negative

**Status : Correct**

**Marks : 1/1**

15. What will be the output of the following code?

```
class MyException extends Exception {
```

```
public MyException() {  
    super("Default Exception Message");  
}  
  
}  
  
class Test {  
    public static void main(String[] args) {  
        try {  
            throw new MyException();  
        } catch (MyException e) {  
            System.out.println(e.getMessage());  
        }  
    }  
}
```

**Answer**

Default Exception Message

**Status :** Correct

**Marks :** 1/1