

Rajalakshmi Engineering College

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Department: AI & ML - Section 1

Batch: 2028

Degree: B.E - AI & ML

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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 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

2. How do you create an unchecked custom exception?

Answer

By extending RuntimeException

Status : Correct

Marks : 1/1

3. 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

4. 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

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

Answer

throw

Status : Correct

Marks : 1/1

6. 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

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

```
import java.io.*;

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

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

Answer

Underage, cannot proceed

Status : Correct

Marks : 1/1

8. 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

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

Answer

Custom exceptions must extend either Exception or RuntimeException

Status : Correct

Marks : 1/1

10. 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());
}
```

Answer

You are not eligible to vote

Status : Correct

Marks : 1/1

11. 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

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

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

Answer

Username must be at least 5 characters long

Status : Correct

Marks : 1/1

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

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

```
241501040 class OutOfStockException extends Exception {  
241501040     public OutOfStockException(String message) {  
241501040         super(message);  
241501040     }  
241501040 }  
241501040  
241501040 class Test {  
241501040     public static void main(String[] args) {  
241501040         try {  
241501040             int stock = 0;  
241501040             if (stock == 0) {  
241501040                 throw new OutOfStockException("Item is out of stock");  
241501040             }  
241501040         } catch (OutOfStockException e) {  
241501040             System.out.println(e.getMessage());  
241501040         }  
241501040     }  
241501040 }
```

Answer

Item is out of stock

Status : Correct

Marks : 1/1

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

Answer

To create user-defined exceptions for specific scenarios

Status : Correct

Marks : 1/1

15. what is the output of the following code?

```
241501040 class MyException extends Exception {  
241501040     public MyException(String message) {  
241501040         super(message);  
241501040     }  
241501040 }
```

```
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