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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?

```
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***

2. 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***

3. 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***

4. 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***

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

Answer

throw

Status : Correct ***Marks : 1/1***

6. 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***

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

Answer

Custom exceptions must extend either Exception or RuntimeException

Status : Correct ***Marks : 1/1***

8. 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***

9. 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***

10. How do you create an unchecked custom exception?

Answer

By extending RuntimeException

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 is the purpose of a custom exception in Java?

Answer

To create user-defined exceptions for specific scenarios

Status : Correct ***Marks : 1/1***

13. 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***

14. 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());
      }
   }
}
```

Answer

Item is out of stock

Status : Correct ***Marks : 1/1***

15. 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***