1. Which of the following is the **superclass** of all exceptions in Java? a) Throwable b) Exception c) RuntimeException d) Error 2. What is the parent class of both Exception and Error? a) Throwable b) Object c) RuntimeException d) IOException 3. Which of these is a checked exception? a) NullPointerException b) ArrayIndexOutOfBoundsException c) ArithmeticException d) IOException 4. What happens if a checked exception is not handled or declared in a method? a) Program crashes at runtime b) Compiler shows an error c) Method automatically handles it d) JVM ignores it 5. Which of the following is an unchecked exception? a) SQLException b) ClassNotFoundException c) FileNotFoundException d) NumberFormatException 6. Errors in Java, like OutOfMemoryError, are: a) Meant to be caught using try-catch b) Subclasses of Exception c) Non-recoverable d) Checked exceptions 7. Which keyword is used to handle exceptions in Java? a) final b) catch c) throw d) try 8. Which block must always follow a try block? a) catch b) throw c) finally d) None 9. How many catch blocks can follow a single try block? a) Only one b) Two c) As many as needed d) None

- 10. What will happen if an exception is thrown but not caught?
- a) Program continues normally
- b) Compiler fixes it
- c) Program terminates abnormally
- d) JVM ignores it
- 11. What kind of exception is NullPointerException?
- a) Checked
- b) Unchecked
- c) User-defined
- d) Compile-time
- 12. Which one of the following is NOT a subclass of RuntimeException?
- a) ArithmeticException
- b) FileNotFoundException
- c) ArrayIndexOutOfBoundsException
- d) NumberFormatException
- 13. In Java, errors and exceptions are part of which hierarchy?
- a) Object
- b) Throwable
- c) Exception
- d) RuntimeException
- 14. Which of the following is true about try and catch blocks?
- a) Only catch is required
- b) Only try is required
- c) try must be followed by either catch or finally
- d) Both try and catch are optional
- 15. You write a method that reads a file. Which kind of exception must you handle or declare?
- a) FileNotFoundException
- b) NullPointerException
- c) ArithmeticException
- d) ArrayIndexOutOfBoundsException
- 16. When multiple catch blocks are used, how are exceptions matched?
- a) Bottom-up
- b) Randomly
- c) Top-down, from specific to general
- d) Order does not matter
- a) Compiler error
- b) Runtime error
- c) JVM skips the specific one
- d) No issue
- 18. Can a try block be used without a catch block?
- a) No
- b) Yes, only with a finally block

```
c) Yes, alwaysd) Only inside a loop
```

```
19. Which of the following represents a scenario where you should NOT use try-catch? a)
Null input
b) Parsing a file
c) Dividing two integers
d) Fixing an OutOfMemoryError
```

20. You have the following code:

```
try {
   int a = 5 / 0;
} catch (ArithmeticException e) {
   System.out.println("Arithmetic error!");
} catch (Exception e) {
   System.out.println("General error!");
}
```

What will be the output?

- a) Arithmetic error! b) General error! c) Compilation error
- d) Runtime exception not caught

## Code Based Questions

1.

```
try {
    String str = null;
    System.out.println(str.length());
} catch (ArithmeticException e) {
    System.out.println("Arithmetic error!");
} catch (NullPointerException e) {
    System.out.println("Null pointer error!");
}
```

- a) Arithmetic error! b) Null pointer error! c) Compilation error
- d) No output

2.

```
try {
    int[] arr = new int[3];
    System.out.println(arr[5]);
} catch (ArrayIndexOutOfBoundsException e) {
    System.out.println("Array error!");
} catch (Exception e) {
    System.out.println("General error!");
}
```

- a) Array error! b) General error! c) Compilation error
- d) No output

3.

```
try {
    int a = Integer.parseInt("abc");
} catch (NumberFormatException e) {
    System.out.println("Number format error!");
} catch (Exception e) {
    System.out.println("General error!");
}
```

- a) Number format error! b) General error! c) Compilation error
- d) No output

4.

```
try {
    int result = 10 / 2;
    System.out.println("Result: " + result);
} catch (ArithmeticException e) {
    System.out.println("Divide by zero!");
}
```

- a) Result: 5
- b) Divide by zero! c) Compilation error
- d) No output

5.

```
try {
    throw new Exception("Custom exception");
} catch (RuntimeException e) {
    System.out.println("Runtime exception caught");
} catch (Exception e) {
    System.out.println("General exception caught");
}
```

- a) Runtime exception caught
- b) General exception caught
- c) Compilation error
- d) No output

6.

```
try {
    int[] nums = null;
    nums[0] = 10;
} catch (ArrayIndexOutOfBoundsException e) {
    System.out.println("Index problem");
} catch (NullPointerException e) {

    System.out.println("Null reference issue");
}
```

a) Index problem

## b) Null reference issue

- c) Compilation error
- d) No output

7.

```
try {
    String s = "123";
    int x = Integer.parseInt(s);
    System.out.println(x / 0);
} catch (NumberFormatException e) {
    System.out.println("Invalid number");
} catch (ArithmeticException e) {
    System.out.println("Division by zero");
}
```

a) Invalid number

## b) Division by zero

- c) Compilation error
- d) No output

8.

```
try {
    int x = 5 / 0;
} catch (Exception e) {
    System.out.println("Exception caught");
} catch (ArithmeticException e) {
    System.out.println("Arithmetic caught");
}
```

- a) Exception caught
- b) Arithmetic caught
- c) Compilation error
- d) No output

9.

```
try {
    System.out.println("Start");
} catch (Exception e) {
    System.out.println("Error occurred");
}
```

## a) Start

- b) Error occurred
- c) Compilation error
- d) No output

10.

```
try {
    String s = null;
    System.out.println("Length: " + s.length());
} catch (Exception e) {
    System.out.println("Handled in general catch");
}
```

- a) Length: 0
- b) Compilation error
- c) Handled in general catch
- d) NullPointerException