- 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
- ${\bf 12.}$ 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
- **17.** What happens if the general exception class is written before a specific one in multiple catch blocks?
- 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
- $\hbox{d) NullPointerException}\\$