

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

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

- Options: A) Arithmetic exception occurred
B) Exception occurred
C) ArithmeticException
D) RuntimeException
-

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

```
public class Test {  
    public static void main(String[] args) throws Exception {  
        throw new Exception("Checked Exception");  
    }  
}
```

- Options: A) Checked Exception
B) Exception is thrown at runtime
C) Compilation error due to unhandled exception
D) No output
-

3. What is the main difference between checked and unchecked exceptions in Java?

- Options: A) Checked exceptions must be explicitly caught or declared, while unchecked exceptions do not
B) Checked exceptions are inherited from Error class, unchecked from Exception
C) Unchecked exceptions are objects of Throwable, checked are not
D) There is no difference
-

4. Which of the following is an unchecked exception?

- Options: A) IOException
B) SQLException
C) ArithmeticException
D) FileNotFoundException
-

5. What will happen if we throw a checked exception without declaring it in the method signature?

- Options: A) Compilation error
B) Runtime error

- C) No error, the exception is handled implicitly
D) The program will not compile until the exception is handled
-

6. What is the correct way to declare that a method throws a checked exception?

- Options: A) `public void method() throw Exception`
B) `public void method() throws Exception`
C) `public void method() throws (Exception)`
D) `public void method() exception throws`
-

7. What is the purpose of the `throw` keyword in Java?

- Options: A) It is used to declare an exception
B) It is used to handle exceptions
C) It is used to create and throw an exception explicitly
D) It is used to catch exceptions
-

8. Which of the following will cause a compilation error?

```
public class Test {  
    public static void main(String[] args) throws Exception {  
        throw new NullPointerException();  
    }  
}
```

- Options: A) `NullPointerException` is a checked exception
B) `NullPointerException` is an unchecked exception
C) It must be declared with `throws` in the method signature
D) The program will compile and run correctly
-

9. What is the output of the following code?

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

- Options: A) Checked Exception
B) Exception thrown
C) Exception caught
D) Compilation error
-

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

```
public class Test {  
    public static void main(String[] args) {  
        try {  
            throw new RuntimeException("Unchecked exception");  
        } catch (RuntimeException e) {  
            System.out.println(e.getMessage());  
        }  
    }  
}
```

Options: **A) Unchecked exception**

B) RuntimeException

C) Exception

D) No output

11. Which of the following exceptions are unchecked?

Options: A) IOException

B) ClassNotFoundException

C) ArithmeticException

D) InterruptedException

12. What is the output of the following code?

```
public class Test {  
    public static void main(String[] args) throws Exception {  
        throw new ClassNotFoundException("Checked Exception");  
    }  
}
```

Options: A) Compilation error because ClassNotFoundException is not handled

B) RuntimeException

C) ClassNotFoundException is thrown

D) Checked Exception

13. What will happen if a method throws an unchecked exception and it is not caught?

Options: A) Compilation error

B) Runtime error

C) No issue, the program continues executing

D) Exception is automatically caught

14. Can we throw an exception from a method that does not declare it in its throws clause?

Options: **A) Yes, only unchecked exceptions can be thrown**

B) Yes, but only if the exception is a runtime exception

C) No, only checked exceptions can be thrown

D) No, the method must declare the exception

15. Which of the following is the correct way to throw a custom exception in Java?

- Options: A) `throw new MyException("Custom Exception")`
B) `throw MyException("Custom Exception")`
C) `throw MyException()`
D) `throws new MyException("Custom Exception")`
-

16. Which of the following is a checked exception?

- Options: A) `NullPointerException`
B) `ArithmeticException`
C) `IOException`
D) `RuntimeException`
-

17. What happens if a method does not handle an exception but throws it using the `throws` keyword?

- Options: A) The program will terminate immediately
B) The exception must be caught or declared by the calling method
C) The exception is automatically caught by the JVM
D) The code will compile without error
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18. Which of the following is correct regarding `throw` and `throws`?

- Options: A) `throw` is used for declaring exceptions, `throws` is used to actually throw an exception
B) `throw` is used for throwing an exception, `throws` is used for declaring exceptions
C) `throws` can only be used with checked exceptions
D) `throw` can only be used with unchecked exceptions
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19. Consider the following method:

```
public void myMethod() throws IOException {  
    throw new IOException("IO Exception occurred");  
}
```

Which of the following is true?

- Options: A) The method must be surrounded by a try-catch block to catch the `IOException`
B) The method must declare the exception using the `throws` keyword
C) This code will cause a compilation error because `IOException` is unchecked
D) `IOException` will be caught by the JVM automatically
-

20. What is the correct statement about throwing multiple exceptions?

- Options: A) A method can throw multiple exceptions, which must be handled by the calling method
B) A method can throw multiple exceptions, but it must use multiple `throw` statements
C) A method cannot throw multiple exceptions
D) A method can throw only one exception at a time
