

1. What is the output?

```
try {  
    throw new RuntimeException("Error");  
} catch(Exception e) {  
    throw e;  
}
```

- A) Compile-time error
- B) RuntimeException propagated
- C) Nothing
- D) Caught successfully

Answer: B

2. Can a finally block override a return value in try?

- A) Yes, always
- B) No
- C) Yes, if return used in finally
- D) Only for checked exceptions

Answer: C

3. What is the output?

```
try {  
    return;  
} finally {  
    System.out.println("Finally");  
}
```

- A) Nothing
- B) Finally
- C) Compile-time error
- D) Runtime error

Answer: B

4. Which statement is true for try-with-resources?

- A) Closes resources automatically
- B) Needs explicit finally
- C) Only works with InputStream
- D) Not supported in Java

Answer: A

5. Which interface must a class implement to be used in try-with-resources?

- A) Serializable

B) Closeable or AutoCloseable

C) Runnable

D) Appendable

Answer: B

6. Which is true about suppressed exceptions?

A) Stored when multiple exceptions occur in try-with-resources

B) Can be retrieved by getSuppressed()

C) Added in Java 7

D) All of these

Answer: D

7. What happens if both try and finally throw exceptions?

A) Exception from try is lost

B) Exception from finally is propagated

C) Both are thrown together

D) Compile-time error

Answer: B

8. Which method retrieves suppressed exceptions?

A) getSuppressed()

B) getCause()

C) getMessage()

D) printStackTrace()

Answer: A

9. Which keyword is used for rethrowing the same exception?

A) throw

B) throws

C) rethrow

D) propagate

Answer: A

10. What is the output?

```
try {  
    int x = 5/0;  
} finally {  
    System.out.println("Finally");  
}
```

A) Finally

- B) ArithmeticException then Finally
- C) Finally then ArithmeticException
- D) Compile-time error

Answer: C

11. Can constructor declare checked exceptions?

- A) Yes
- B) No
- C) Only RuntimeException
- D) Only Error

Answer: A

12. Which is true about overriding with exceptions?

- A) Overriding method cannot throw broader checked exception
- B) Can throw narrower checked exception
- C) Can throw unchecked exceptions freely
- D) All of these

Answer: D

13. Which is the base class of all errors and exceptions in Java?

- A) Error
- B) Exception
- C) Throwable
- D) RuntimeException

Answer: C

14. Which exception is thrown if clone() is not supported?

- A) CloneNotSupportedException
- B) IllegalArgumentException
- C) UnsupportedOperationException
- D) IOException

Answer: A

15. Which exception is thrown when object serialization fails?

- A) NotSerializableException
- B) IOException
- C) ClassNotFoundException
- D) RuntimeException

Answer: A

16. Which exception occurs when reflection fails?

- A) InvocationTargetException
- B) ReflectiveOperationException
- C) IllegalAccessException
- D) All of these

Answer: D

17. Can static initializer throw checked exceptions?

- A) No
- B) Yes
- C) Only RuntimeException
- D) Only IOException

Answer: A

18. Which error occurs when JVM runs out of memory?

- A) StackOverflowError
- B) OutOfMemoryError
- C) VirtualMachineError
- D) Both B and C

Answer: D

19. Which error occurs when infinite recursion happens?

- A) RecursionError
- B) StackOverflowError
- C) OutOfMemoryError
- D) RuntimeException

Answer: B

20. Can a catch block handle multiple exceptions using multi-catch?

- A) Yes
- B) No
- C) Only in Java 5
- D) Only in Java 6

Answer: A

21. Which operator separates multiple exceptions in multi-catch?

- A) |
- B) ,
- C) ||
- D) &

Answer: A

22. Which is true about multi-catch?

- A) Catch parameter is implicitly final
- B) Cannot assign to parameter
- C) Can catch unrelated exceptions
- D) All of these

Answer: D

23. What is exception chaining?

- A) Linking one exception to another
- B) Throwing multiple exceptions
- C) Overriding with exceptions
- D) Suppressing exceptions

Answer: A

24. Which constructor allows exception chaining?

- A) Exception(String message, Throwable cause)
- B) Exception(Throwable cause)
- C) RuntimeException(String, Throwable)
- D) All of these

Answer: D

25. Which method retrieves cause of an exception?

- A) getCause()
- B) getMessage()
- C) getSuppressed()
- D) initCause()

Answer: A

26. Which method sets cause of exception after creation?

- A) initCause()
- B) setCause()
- C) cause()
- D) assignCause()

Answer: A

27. Which is true about checked exceptions?

- A) Must be caught or declared
- B) Checked at compile-time

C) Subclasses of Exception (not RuntimeException)

D) All of these

Answer: D

28. Which is true about unchecked exceptions?

A) Subclasses of RuntimeException

B) Checked at runtime only

C) Need not be declared

D) All of these

Answer: D

29. Which exception is thrown when reflection method invoke() fails?

A) InvocationTargetException

B) IllegalAccessException

C) ClassNotFoundException

D) IOException

Answer: A

30. What is the output?

```
try {  
    throw new Exception("Hi");  
} catch(RuntimeException e) {  
    System.out.println("Run");  
} catch(Exception e) {  
    System.out.println("Ex");  
}
```

A) Hi

B) Run

C) Ex

D) Error

Answer: C

31. Which exception is thrown if thread join() fails?

A) InterruptedException

B) IllegalThreadStateException

C) RuntimeException

D) IOException

Answer: A

32. Which method of Throwable prints stack trace?

- A) printStackTrace()
- B) getTrace()
- C) showStack()
- D) getStack()

Answer: A

33. Which method retrieves stack trace as array?

- A) getStackTrace()
- B) printStackTrace()
- C) showTrace()
- D) trace()

Answer: A

34. Which is true about finally?

- A) Executes even if exception not caught
- B) Executes even if return is in try
- C) Does not execute if JVM exits
- D) All of these

Answer: D

35. Which exception occurs when resource fails to close?

- A) IOException
- B) SuppressedException
- C) AutoCloseException
- D) RuntimeException

Answer: A

36. Which is true about Error class?

- A) Represents serious problems
- B) Not meant to be caught
- C) Subclass of Throwable
- D) All of these

Answer: D

37. Which of these is not a runtime exception?

- A) ArithmeticException
- B) NullPointerException
- C) IOException
- D) ArrayIndexOutOfBoundsException

Answer: C

38. Which exception occurs if thread sleep() interrupted?

- A) InterruptedException
- B) RuntimeException
- C) IOException
- D) ThreadException

Answer: A

39. Which statement is true?

- A) Errors are not recoverable
- B) Runtime exceptions are unchecked
- C) Checked exceptions are part of method signature
- D) All of these

Answer: D

40. Which exception occurs when accessing past end of string?

- A) StringIndexOutOfBoundsException
- B) ArrayIndexOutOfBoundsException
- C) NullPointerException
- D) IOException

Answer: A

41. Which error occurs when method call depth is too high?

- A) OutOfMemoryError
- B) StackOverflowError
- C) VirtualMachineError
- D) RuntimeException

Answer: B

42. Can an abstract method declare exceptions?

- A) Yes
- B) No
- C) Only RuntimeExceptions
- D) Only Errors

Answer: A

43. Which is true about overriding and exceptions?

- A) Overriding method cannot throw new checked exception
- B) Overriding method can throw fewer exceptions
- C) Overriding method can throw unchecked exceptions

D) All of these

Answer: D

44. Which exception indicates illegal thread state?

A) `IllegalThreadStateException`

B) `InterruptedException`

C) `RuntimeException`

D) `IOException`

Answer: A

45. Which exception indicates concurrent modification of collection?

A) `ConcurrentModificationException`

B) `IllegalStateException`

C) `ArrayStoreException`

D) `IOException`

Answer: A

46. Which exception indicates class not found at runtime?

A) `ClassNotFoundException`

B) `NoClassDefFoundError`

C) Both A and B

D) None

Answer: C

47. Which exception occurs when accessing invalid enum constant?

A) `IllegalArgumentException`

B) `EnumConstantNotPresentException`

C) `RuntimeException`

D) `NullPointerException`

Answer: B

48. Which error indicates JVM internal error?

A) `InternalError`

B) `VirtualMachineError`

C) `OutOfMemoryError`

D) `AssertionError`

Answer: A

49. Which statement is true about rethrow?

A) Can rethrow checked exceptions with precise rethrow (Java 7+)

- B) Cannot rethrow unchecked
- C) Rethrow works only in finally
- D) None

Answer: A

50. Which method gives detail message of exception?

- A) getMessage()
- B) printStackTrace()
- C) toString()
- D) getCause()

Answer: A