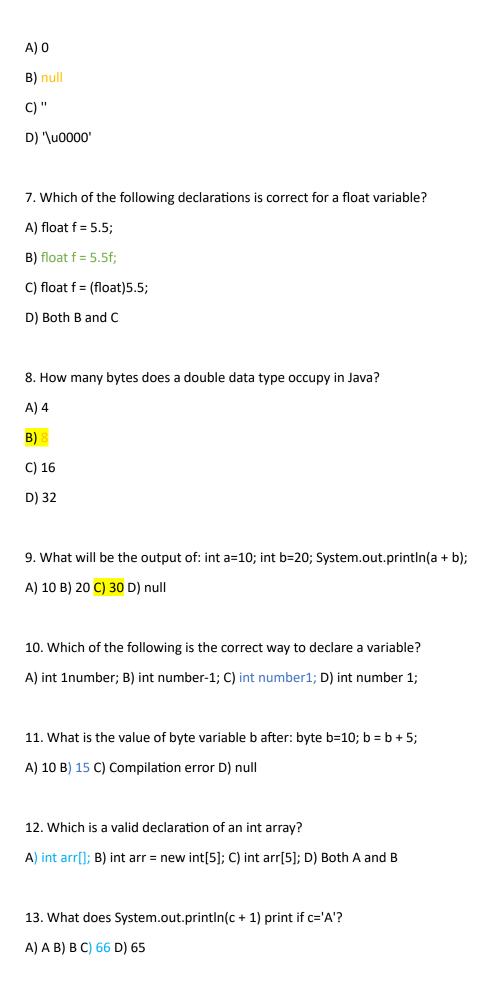
1. What is the default value of a boolean variable in Java?
A) true
B) false
C) 0
D) null
2. Which of the following is not a primitive data type in Java?
A) int
B) float
C) String
D) char
3. Which data type is used to store a character in Java?
A) String
B) char
C) Character
D) byte
4. What is the size of an int data type in Java?
A) 8 bits
B) 16 bits
C) 32 bits
D) 64 bits
5. Which data type can hold the largest range of values?
A) byte
B) short
C) int
D) long
6. What is the default value of a char variable in Java?



- 14. What is the range of short data type?
- A) -128 to 127 B) -32768 to 32767 C) -2^31 to 2^31-1 D) 0 to 255
- 15. Which keyword declares a constant variable?
- A) static B) const C) final D) immutable
- 16. What will be the result of 5 / 2 in integer arithmetic?
- A) 2 B) 2.5 C) 2.0 D) 3
- 17. Which data types can hold decimal numbers?
- A) decimal B) double C) float D) Both B and C
- 18. What is the entry point method of a Java application?
- A) start() B) run() C) main() D) init()
- 19. Which cannot be used as a variable name?
- A) identifier B) keyword C) &none D) underscore
- 20. How do you comment a block in Java?
- A) //... B) !--...- C) /*...*/ D) ...
- 21. Byte arithmetic automatically promotes variables to which type?
- A) long B) short C) int D) long
- 22. What does the 'this' keyword refer to?
- A) Local variable B) Current instance C) Class D) Parent constructor call
- 23. What does the 'super' keyword refer to?
- A) Method call B) 'this' reference C) Superclass members D) None

- 24. Which class is immutable in Java?A) String B) StringBuffer C) StringBuilder D) StringJoiner
- 25. Which operator concatenates strings?
- A) + B) && C) || D) ++
- 26. What collection stores unique unordered elements?
- A) ArrayList B) HashMap C) HashSet D) LinkedList
- 27. What does '==' compare on objects?
- A) content B) reference C) hash D) case
- 28. Which interface is used for natural ordering?
- A) Cloneable B) Comparable C) Iterable D) Serializable
- 29. What is an abstract class used for?
- A) Cannot instantiate B) Template for subclasses C) Multiple inheritance D) Both A & B
- 30. Which keyword defines an abstract class?
- A) final B) abstract C) virtual D) static
- 31. What kind of relationship does inheritance represent?
- A) aggregation B) composition C) is-a D) has-a
- 32. What is polymorphism?
- A) Same form B) Many forms C) Single behavior D) Static binding
- 33. What is compile-time polymorphism?
- A) method overloading B) method overriding C) inheritance D) interface
- 34. What is runtime polymorphism?

```
A) overload B) override C) inheritance D) template
35. Can static methods be overridden?
A) Yes B) No C) Partial D) Depends
36. Which keyword defines an interface?
A) interface B) class C) implements D) extends
37. Are default methods allowed in Java 8 interfaces?
A) yes B) no C) maybe D) not sure
38. Which keyword defines an enum type?
A) enum B) extends C) implements D) final
39. Enum implicitly extends which class?
A) Enum B) Object C) interface D) Serializable
40. What exception is thrown on illegal monitor misuse?
A) IllegalMonitorException B) IllegalMonitorStateException C) MonitorException D)
SynchronizationException
41. Which keyword is used to catch exceptions?
A) try B) catch C) final D) throw
42. Which block executes regardless of exception?
A) catch B) try C) finally D) none
43. What exception arises dividing by zero with int?
A) NullPointerException B) ArithmeticException C) IndexOutOfBoundsException D) Exception
44. Which is a checked exception?
```

- A) NullPointerException B) ArithmeticException C) FileNotFoundException D) ArrayIndexOutOfBoundsException
- 45. Which method converts an object to string?
- A) toString() B) toStr() C) string() D) display()
- 46. What is boxing in Java?
- A) Primitive to object B) Object to primitive C) String to int D) int to String
- 47. Wrapper class for 'int'?
- A) Integer B) Int C) Number D) String
- 48. Purpose of garbage collection?
- A) Manual delete B) Free memory of unused objects C) Optimize code D) Backup data
- 49. What does 'volatile' keyword do?
- A) Immutable B) No change C) Thread visibility D) Thread locking
- 50. What does 'transient' keyword do?
- A) Skip serialization B) None C) const D) var