Java is a platform-dependent language.  Answer: False
2. The main method in Java must always be public static void main(String[] args). Answer: True
3. Java source code is compiled into machine code directly.  Answer: False
4. In Java, char is a 16-bit Unicode character. Answer: True
5. The default value of a local variable is null. Answer: False
6. Java supports multiple inheritance using classes. Answer: False
7. The extends keyword is used to implement an interface. Answer: False
8. Java arrays are resizable after creation. Answer: False
9. Strings in Java are immutable. Answer: True

Section 4 – True / False (125)

10. The break statement is used to exit from a loop or switch statement.  Answer: True
11. The Scanner class is in the java.lang package.  Answer: False
12. The == operator compares the content of two strings.  Answer: False
13. The equals() method compares string values.  Answer: True
14. Java uses garbage collection for automatic memory management.  Answer: True
15. float has a higher precision than double.  Answer: False
16. The super keyword is used to call the superclass constructor.  Answer: True
17. final variables can be reassigned after initialization.  Answer: False
18. The do-while loop checks its condition at the beginning of each iteration.  Answer: False
19. for-each loops can iterate over arrays and collections.

Answer: True
20. The package statement must be the first statement in a Java source file. Answer: True
21. Java is case-sensitive. Answer: True
22. The default value of a boolean variable is true. Answer: False
23. A method can return more than one value directly. Answer: False
24. Wrapper classes in Java allow primitive types to be used as objects. Answer: True
25. The catch block must always be followed by a finally block. Answer: False
26. private members are accessible in subclasses. Answer: False
27. Static methods belong to objects, not classes. Answer: False
28. The import statement is used to include external packages in Java.

Answer: True

29. All exceptions in Java are checked exceptions.  Answer: False
30. The modulus operator % gives the remainder of a division.  Answer: True
31. Java supports operator overloading for arithmetic operators.  Answer: False
32. The this keyword refers to the current object.  Answer: True
33. The size of an int in Java is platform-dependent.  Answer: False
34. Java supports unsigned integer types. Answer: False
35. A class can have multiple constructors.  Answer: True
36. Local variables are stored in the heap memory.  Answer: False
37. The instanceof operator checks whether an object is an instance of a class.  Answer: True

38. Java automatically imports java.util.* in every program.
Answer: False
39. The continue statement skips the rest of the loop iteration.
Answer: True
40. Interfaces in Java can have method implementations.
Answer: True (since Java 8, using default methods)
41. null can be assigned to any primitive type.
Answer: False
42. An abstract class can be instantiated directly.
Answer: False
43. Method overloading is determined at compile time.
Answer: True
44. Method overriding is determined at runtime.
Answer: True
45. The enum keyword is used to declare enumerations.
Answer: True
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46. The finalize() method is guaranteed to be called before garbage collection.
Answer: False
47. The charAt() method returns a string.

Answer: False
48. The substring() method in String is inclusive of the end index.  Answer: False
49. An interface can extend another interface. Answer: True
50. A switch statement can use strings as case values.  Answer: True (since Java 7)
51. Java supports destructors like C++. Answer: False
52. The max() method in Math returns the smaller of two numbers. Answer: False
53. static variables are initialized once per class. Answer: True
54. The public access modifier allows members to be accessed from anywhere.  Answer: True
55. A class can extend multiple classes in Java. Answer: False
56. The hashCode() method returns an integer representation of the object.

Answer: True

57. The compareTo() method returns zero if two strings are equal.  Answer: True
58. The toLowerCase() method in String modifies the original string.  Answer: False
59. The default constructor is automatically provided if no constructors are defined.  Answer: True
60. The protected access modifier makes members accessible only within the same package.  Answer: False (also accessible in subclasses)
61. The java.lang package contains the String class.  Answer: True
62. The ArrayList class is in the java.util package.  Answer: True
63. Arrays in Java can store primitive and object types.  Answer: True
64. The length of an array is fixed once it is created.  Answer: True
65. The super keyword can be used to call superclass methods.  Answer: True

66. A constructor can have a return type.
Answer: False
67. The volatile keyword ensures visibility of changes to variables across threads.
Answer: True
68. The synchronized keyword is used to make code thread-safe.
Answer: True
69. A final method can be overridden.
Answer: False
70. Java provides direct memory management to programmers.
Answer: False
71. An array index in Java starts at 1.
Answer: False
72. The length property is used to get the size of an array.
Answer: True
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73. Java follows the pass-by-value mechanism for method arguments.
Answer: True
74. The parseInt() method belongs to the Integer class.
Answer: True
75. The trim() method removes all spaces in a string.

Answer: False (removes only leading and trailing spaces)
76. The replace() method in String modifies the original string.  Answer: False
77. The switch statement can work with enum values.  Answer: True
78. The default keyword in switch is mandatory.  Answer: False
79. Java supports automatic type conversion when widening types.  Answer: True
80. The narrowing conversion happens automatically.  Answer: False
81. The void keyword means a method returns no value.  Answer: True
82. The System.out.println() method is used to read input.  Answer: False
83. The Scanner class can be used for reading integers.  Answer: True
84. Java allows methods to have the same name but different parameter lists.  Answer: True

85. Overridden methods must have the same return type or a covariant return type.
Answer: True
86. The new keyword is used for creating arrays.
Answer: True
87. The finally block always executes regardless of exceptions.
Answer: True
88. An abstract method must have a body.
Answer: False
89. A class declared as final cannot be instantiated.
Answer: False (it can be instantiated but not subclassed)
90. The equalsIgnoreCase() method considers case when comparing strings.
Answer: False
91. The Math.abs() method returns the absolute value.
Answer: True
92. The this() call must be the first statement in a constructor.
Answer: True
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93. Constructors can be overloaded.
Answer: True

94. Java automatically performs memory deallocation for unused objects.
Answer: True
95. An interface can have static methods.
Answer: True
96. Java supports labeled loops.
Answer: True
97. The continue statement can be used with labels.
Answer: True
98. The char data type can store ASCII characters only.
Answer: False
99. The instanceof operator returns a boolean value.
Answer: True
100. The Math.sqrt() method returns a float value.
Answer: False (returns double)
101. The max() method in Math returns the larger value.
Answer: True
102. The min() method in Math returns the smaller value.
Answer: True
103. Java supports multiple catch blocks for a single try block.

Answer: True
104. The throw keyword is used to declare an exception.
Answer: False (throws is used to declare, throw to throw)
105. The long data type is 64 bits.
Answer: True
106. A static method can access instance variables directly.
Answer: False
107. A constructor can be private
107. A constructor can be private.  Answer: True
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108. The default access modifier means package-private access.
Answer: True
109. The equals() method in Object class compares reference equality.
Answer: True
110. The java.io package is used for input/output operations.
Answer: True
111. The java.net package contains classes for networking.
Answer: True
112. The length() method is used to get the size of an array.
Answer: False (arrays use length property, not method)

113. The length() method is used to get the number of characters in a String.  Answer: True
114. Java supports comments in the form // and /* */. Answer: True
115. The && operator represents logical AND.  Answer: True
116. The    operator represents logical OR.  Answer: True
117. The ! operator represents logical NOT.  Answer: True
118. Java methods can have a variable number of arguments.  Answer: True (using varargs)
119. The charAt() method index starts at 1.  Answer: False
120. The StringBuffer class is immutable.  Answer: False
121. The StringBuilder class is mutable.  Answer: True

122. Both StringBuffer and StringBuilder are thread-safe.

Answer: False (StringBuffer is thread-safe, StringBuilder is not)

123. The indexOf() method returns -1 if the substring is not found.

Answer: True

124. The default numeric type for floating-point literals in Java is float.

Answer: False (it's double)

125. Java supports automatic widening conversion for compatible types.

Answer: True