

## ## \*\*Section 1 – One-Word Answer Questions\*\*

1. Who is known as the father of Java programming language?

**\*\*Answer:\*\*** James Gosling

2. What is the full form of JVM?

**\*\*Answer:\*\*** Java Virtual Machine

3. Which keyword is used to define a class in Java?

**\*\*Answer:\*\*** class

4. Which feature of Java allows code to run on any platform?

**\*\*Answer:\*\*** Platform Independence

5. Which data type in Java has the range from -128 to 127?

**\*\*Answer:\*\*** byte

6. Which Java principle hides implementation details and exposes only functionality?

**\*\*Answer:\*\*** Abstraction

7. What type of Java program runs inside a web browser?

**\*\*Answer:\*\*** Applet

8. Which keyword is used to make a method belong to a class rather than an instance?

**\*\*Answer:\*\*** static

9. Which OOP principle allows one class to derive properties from another?

**\*\*Answer:\*\* Inheritance**

10. In Java, what is the size (in bits) of a char data type?

**\*\*Answer:\*\* 16**

11. Which operator in Java is also known as the ternary operator?

**\*\*Answer:\*\* ? :**

12. Which type of loop checks the condition before executing the loop body?

**\*\*Answer:\*\* while**

13. Which keyword is used to exit from a loop immediately?

**\*\*Answer:\*\* break**

14. Which statement is used to skip the current iteration of a loop?

**\*\*Answer:\*\* continue**

15. Which Java feature supports executing multiple threads simultaneously?

**\*\*Answer:\*\* Multithreading**

16. What is the default value of a boolean in Java?

**\*\*Answer:\*\* false**

17. Which data type is used for decimal numbers with single precision?

**\*\*Answer:\*\* float**

18. What is the term for converting a smaller data type into a larger one automatically?

**\*\*Answer:\*\* Widening**

19. Which class in Java is used to read input from the console?

**\*\*Answer:\*\*** Scanner

20. Which Java feature ensures that primitive sizes remain constant across platforms?

**\*\*Answer:\*\*** Architecture Neutral

21. Which Java statement is used for multi-way branching based on a variable's value?

**\*\*Answer:\*\*** switch

22. Which Java collection class provides a dynamic array?

**\*\*Answer:\*\*** ArrayList

23. What is the range of the short data type in Java?

**\*\*Answer:\*\*** -32768 to 32767

24. Which Java program type is used for server-side applications accessed via a browser?

**\*\*Answer:\*\*** Web Application

25. Which method is the entry point of any Java program?

**\*\*Answer:\*\*** main

26. Which type of array stores data in rows and columns?

**\*\*Answer:\*\*** Multidimensional Array

27. What is the Java term for converting a wrapper object into its primitive type automatically?

**\*\*Answer:\*\*** Unboxing

28. Which keyword is used to declare a constant in Java?

**\*\*Answer:\*\*** final

29. Which access modifier makes a member visible only within its own class?

**\*\*Answer:\*\*** private

30. What is the process of creating an object using an existing object's values called?

**\*\*Answer:\*\*** Copy Constructor

31. Which method in Java is used to find the length of a string?

**\*\*Answer:\*\*** length()

32. Which loop is guaranteed to execute its body at least once?

**\*\*Answer:\*\*** do-while

33. What is the default value of an int in Java?

**\*\*Answer:\*\*** 0

34. Which Java keyword is used to inherit a class?

**\*\*Answer:\*\*** extends

35. Which Java package is imported by default?

**\*\*Answer:\*\*** java.lang

36. What is the process of converting a larger data type to a smaller one called?

**\*\*Answer:\*\*** Narrowing

37. Which OOP principle allows a method to have multiple forms?

**\*\*Answer:\*\*** Polymorphism

38. Which operator in Java is used for modulus operation?

**\*\*Answer:\*\*** %

39. Which method in the String class is used to compare strings ignoring case?

**\*\*Answer:\*\*** equalsIgnoreCase()

40. Which method in the String class is used to join two strings?

**\*\*Answer:\*\*** concat()

41. Which Java feature allows code to be executed over a network on different machines?

**\*\*Answer:\*\*** Distributed

42. What is the Java file extension for compiled bytecode?

**\*\*Answer:\*\*** .class

43. Which logical operator returns true if both operands are true?

**\*\*Answer:\*\*** &&

44. Which wrapper class corresponds to the char primitive type?

**\*\*Answer:\*\*** Character

45. What is the smallest unit of data in Java arrays called?

**\*\*Answer:\*\*** Element

46. Which keyword is used to call the constructor of a superclass?

**\*\*Answer:\*\*** super

47. Which Java operator increases a value by one?

**\*\*Answer:\*\*** ++

48. What is the default value of a String reference variable in Java?

**\*\*Answer:\*\*** null

49. Which Java feature eliminates the need for manual memory deallocation?

**\*\*Answer:\*\*** Garbage Collection

50. Which keyword in Java refers to the current object?

**\*\*Answer:\*\*** this

51. Which method of the Object class is used to obtain a string representation of an object?

**\*\*Answer:\*\*** toString()

52. Which primitive type is used for true/false values?

**\*\*Answer:\*\*** boolean

53. Which statement is used to terminate a switch case?

**\*\*Answer:\*\*** break

54. What is the range of an int in Java?

**\*\*Answer:\*\*** -2147483648 to 2147483647

55. Which method in the String class returns a substring of a string?

**\*\*Answer:\*\*** substring()

56. Which Java operator is used for bitwise AND?

**\*\*Answer:\*\*** &

57. Which Java keyword is used to define a constant that cannot be overridden?

**\*\*Answer:\*\*** final

58. Which method in Java is automatically called before garbage collection?

**\*\*Answer:\*\*** finalize()

59. Which keyword is used to create an object in Java?

**\*\*Answer:\*\*** new

60. Which control statement in Java is used for conditional branching?

**\*\*Answer:\*\*** if

61. Which Java data type is used for large integer values?

**\*\*Answer:\*\*** long

62. Which operator in Java is used to compare two values for equality?

**\*\*Answer:\*\*** ==

63. Which package contains the ArrayList class?

**\*\*Answer:\*\*** java.util

64. Which keyword is used to declare a method that must be implemented by subclasses?

**\*\*Answer:\*\*** abstract

65. Which Java term refers to variables declared inside a method?

**\*\*Answer:\*\*** Local Variables

66. Which Java keyword is used to stop method execution and return control?

**\*\*Answer:\*\*** return

67. Which Java method splits a string into parts based on a delimiter?

**\*\*Answer:\*\*** split()

68. Which Java concept allows code to run both as compiled and interpreted?

**\*\*Answer:\*\*** Compiled and Interpreted

69. Which primitive type is used for 64-bit floating-point values?

**\*\*Answer:\*\*** double

70. Which type of variable belongs to the class rather than instances?

**\*\*Answer:\*\*** Static Variable

71. Which Java keyword is used to create an interface?

**\*\*Answer:\*\*** interface

72. Which operator in Java inverts a boolean value?

**\*\*Answer:\*\*** !

73. Which method of the String class is used to replace characters or substrings?

**\*\*Answer:\*\*** replace()

74. Which Java keyword is used to declare a class that cannot be inherited?



**\*\*Answer:\*\* final**

75. Which type of Java variable is shared by all instances of a class?

**\*\*Answer:\*\* Static Variable**

76. Which Java concept refers to loading classes at runtime?

**\*\*Answer:\*\* Dynamic Loading**

77. Which keyword is used to define a package in Java?

**\*\*Answer:\*\* package**

78. Which Java loop is best when the number of iterations is known?

**\*\*Answer:\*\* for**

79. Which method of the String class returns the index of a substring?

**\*\*Answer:\*\* indexOf()**

80. Which Java principle allows code reuse through shared behavior?

**\*\*Answer:\*\* Inheritance**

81. Which primitive type is used for 16-bit signed integers?

**\*\*Answer:\*\* short**

82. Which Java feature checks data type correctness at compile time?

**\*\*Answer:\*\* Strong Type Checking**

83. Which keyword is used to indicate that a method cannot be overridden?

**\*\*Answer:\*\* final**

84. Which OOP principle is implemented by method overloading?

**\*\*Answer:\*\*** Polymorphism

85. Which class is the root of the Java class hierarchy?

**\*\*Answer:\*\*** Object

86. Which primitive type is used for characters?

**\*\*Answer:\*\*** char

87. Which loop type in Java does not guarantee execution of its body?

**\*\*Answer:\*\*** while

88. Which Java statement transfers control to another part of the program?

**\*\*Answer:\*\*** Jump Statement

89. Which Java operator is used for bitwise OR?

**\*\*Answer:\*\*** |

90. Which Java keyword is used to define a subclass?

**\*\*Answer:\*\*** extends

91. Which data type in Java consumes 8 bytes for integer values?

**\*\*Answer:\*\*** long

92. Which type of casting requires explicit syntax by the programmer?

**\*\*Answer:\*\*** Narrowing

93. Which keyword is used to create a subclass from a superclass?

**\*\*Answer:\*\*** extends

94. Which keyword in Java defines methods without implementation?

**\*\*Answer:\*\*** abstract

95. Which operator in Java is used for division?

**\*\*Answer:\*\*** /

96. Which data structure stores fixed-size elements of the same type?

**\*\*Answer:\*\*** Array

97. Which package contains the Scanner class?

**\*\*Answer:\*\*** java.util

98. Which control structure chooses between multiple paths based on a condition?

**\*\*Answer:\*\*** switch

99. Which Java keyword is used to indicate a method belongs to a class?

**\*\*Answer:\*\*** static

100. Which method in the String class checks if two strings are equal?

**\*\*Answer:\*\*** equals()

101. Which Java keyword allows a class to use methods from an interface?

**\*\*Answer:\*\*** implements

102. Which primitive data type is the default for decimal values in Java?

**\*\*Answer:\*\* double**

103. Which Java feature allows for concurrent execution of parts of a program?

**\*\*Answer:\*\* Multithreading**

104. Which keyword is used to call another constructor in the same class?

**\*\*Answer:\*\* this**

105. Which method in the String class converts all characters to lowercase?

**\*\*Answer:\*\* toLowerCase()**

106. Which operator in Java is used for bitwise XOR?

**\*\*Answer:\*\* ^**

107. Which keyword is used to prevent a class from being subclassed?

**\*\*Answer:\*\* final**

108. Which variable type is created inside a class but outside methods?

**\*\*Answer:\*\* Instance Variable**

109. Which Java operator is used to increment after use?

**\*\*Answer:\*\* Postfix Increment**

110. Which keyword in Java is used to import a package?

**\*\*Answer:\*\* import**

111. Which Java principle wraps data and behavior together?

**\*\*Answer:\*\* Encapsulation**

112. Which operator in Java is used for multiplication?

**\*\*Answer:\*\*** \\*

113. Which keyword in Java is used to start program execution?

**\*\*Answer:\*\*** main

114. Which method in the String class converts to uppercase?

**\*\*Answer:\*\*** toUpperCase()

115. Which operator in Java shifts bits to the left?

**\*\*Answer:\*\*** <<

116. Which loop in Java iterates over elements of an array directly?

**\*\*Answer:\*\*** for-each

117. Which Java statement is used for decision-making?

**\*\*Answer:\*\*** if

118. Which operator in Java shifts bits to the right?

**\*\*Answer:\*\*** >>

119. Which Java method is used to parse a string into an integer?

**\*\*Answer:\*\*** parseInt()

120. Which Java concept eliminates platform dependency?

**\*\*Answer:\*\*** Bytecode

121. Which keyword is used to stop execution of a method?

**\*\*Answer:\*\*** return

122. Which class is used to represent files and directories in Java?

**\*\*Answer:\*\*** File

123. Which Java feature loads classes when they are needed?

**\*\*Answer:\*\*** Dynamic Loading

124. Which Java operator performs an unsigned right shift?

**\*\*Answer:\*\*** >>>

125. Which method in the String class checks if a substring exists?

**\*\*Answer:\*\*** contains()