**A+ Computer Science**

**Syntax & Output M/C TEST**

**Directions ::** On your answer sheet, mark the letter of the best answer to each question.

1. **What is the output by the code below?**

System.out.print("a\tc" );

|  |  |
| --- | --- |
| A. | a\tc |
| B. | a c |
| C. | atc |
| D. | a\c |
| E. | ac |

2. **What is the output by the code below?**

System.out.print("ab\\ab" );

|  |  |
| --- | --- |
| A. | abab |
| B. | ab |
| C. | ab\ab |
| D. | bab |
| E. | abb |

3. **What of the following is not a legal reserved word for a java data type?**

|  |  |
| --- | --- |
| A. | integer |
| B. | double |
| C. | float |
| D. | char |
| E. | short |

4. **What is the output by the code below?**

String s = "abcdef";

System.out.println( s );

|  |  |
| --- | --- |
| A. | abc |
| B. | abcdef |
| C. | abcde |
| D. | s |
| E. | abcd |

5. **In Java, every program statement ends with a what ?**

|  |  |
| --- | --- |
| A. | { |
| B. | } |
| C. | ; |
| D. | \ |
| E. | ( |

6. **Which of the following is a valid identifier in Java?**

|  |  |
| --- | --- |
| A. | 123java |
| B. | main |
| C. | java1234 |
| D. | {abce |
| E. | )whoot |

7. **Which of the following can be used to comment code in Java?**

|  |  |
| --- | --- |
| A. | [ |
| B. | // |
| C. | {\* |
| D. | }\* |
| E. | ( |

8. **Which of the following is a 32 bit data type?**

|  |  |
| --- | --- |
| A. | char |
| B. | long |
| C. | double |
| D. | int |
| E. | short |

9. **What is the output by the code below?**

System.out.println( 3 + " " + 3 );

|  |  |
| --- | --- |
| A. | 6 |
| B. | 3 3 |
| C. | 6 6 |
| D. | 3" "3 |
| E. | 3 |

10. **What is the output by the code below?**

System.out.println( 3 + 6 );

|  |  |
| --- | --- |
| A. | 6 |
| B. | 9 |
| C. | 3 |
| D. | 0 |
| E. | -3 |

11. **What is the output by the code below?**

System.out.println( "\"9" );

|  |  |
| --- | --- |
| A. | 9 |
| B. | "9 |
| C. | \"9 |
| D. | \ |
| E. | 99 |

12. **Which of the following lines correctly defines a String variable?**

|  |  |
| --- | --- |
| A. | String s = cdef; |
| B. | s = "cdef"; |
| C. | String s = "cdef"; |
| D. | String = "cdef"; |
| E. | String; |

13. **Which of the following lines correctly defines an integer variable?**

|  |  |
| --- | --- |
| A. | int i = 234 |
| B. | i = 234; |
| C. | integer = 234; |
| D. | int i = 234; |
| E. | integer i = 23; |

14. **Which of the following lines correctly defines a double variable?**

|  |  |
| --- | --- |
| A. | double d = 234.1; |
| B. | d = 234.1 |
| C. | double = 234.1 |
| D. | double d = 234.1 |
| E. | double = 89.3; |

15. **Which of the following lines correctly defines a char variable?**

|  |  |
| --- | --- |
| A. | char c = ‘a’; |
| B. | char = a; |
| C. | char = ‘a’; |
| D. | char c = a; |
| E. | char ‘a’; |

16. **Which of the following types uses the most memory?**

|  |  |
| --- | --- |
| A. | int |
| B. | double |
| C. | float |
| D. | char |
| E. | short |

17. **Which of the following types uses the least memory?**

|  |  |
| --- | --- |
| A. | int |
| B. | double |
| C. | float |
| D. | char |
| E. | long |

18. **Never put a semicolon before an open what?**

|  |  |
| --- | --- |
| A. | store |
| B. | car door |
| C. | window |
| D. | brace |
| E. | chicken |

19. **Which of the following methods would move the cursor down to the next line?**

|  |  |
| --- | --- |
| A. | print() |
| B. | println() |
| C. | printLn() |
| D. | printLINE() |
| E. | prinT() |

20. **Every method must have an open and close what?**

|  |  |
| --- | --- |
| A. | period |
| B. | bracket |
| C. | semicolon |
| D. | brace |
| E. | chickens |

21. **Which of the following is the newline character?**

|  |  |
| --- | --- |
| A. | \t |
| B. | \r |
| C. | \n |
| D. | \nl |
| E. | \b |

22. **Which of the following is the tab character?**

|  |  |
| --- | --- |
| A. | \t |
| B. | \r |
| C. | \n |
| D. | \nl |
| E. | \b |

23. **Which of the following would print one backslash on the screen if used in a print( ) or println( )?**

|  |  |
| --- | --- |
| A. | \\ |
| B. | \ |
| C. | /\ |
| D. | \\\ |
| E. | \b |

24. **What is the output by the code below?**

int x = 9;

double y = x;

System.out.println(y);

|  |  |
| --- | --- |
| A. | 9 |
| B. | 9.0 |
| C. | 0 |
| D. | There is no output due to a syntax error. |
| E. | There is no output due to a runtime error. |

25. **What is the output by the code below?**

double y = 9.0;

int x = y;

System.out.println(x);

|  |  |
| --- | --- |
| A. | 9 |
| B. | 9.0 |
| C. | 0 |
| D. | There is no ouptut due to a syntax error. |
| E. | There is no ouptut due to a runtime error. |

26. **What is the ASCII value of ‘b’?**

|  |  |
| --- | --- |
| A. | 43 |
| B. | 98 |
| C. | 48 |
| D. | 66 |
| E. | 97 |

27. **What is the ASCII value of ‘B’?**

|  |  |
| --- | --- |
| A. | 44 |
| B. | 97 |
| C. | 66 |
| D. | 43 |
| E. | 65 |

28. **What is the output by the code below?**

char c = 65;

System.out.println(c);

|  |  |
| --- | --- |
| A. | 65 |
| B. | A |
| C. | 0 |
| D. | A |
| E. | C |

29. **What is the output by the code below?**

String s = "Hello";

System.out.println("\String s");

|  |  |
| --- | --- |
| A. | String s |
| B. | Hello |
| C. | String Hello |
| D. | There is no ouptut due to a syntax error. |
| E. | There is no ouptut due to a runtime error. |

30. **What is the output by the code below?**

int cost = 2.65;

System.out.println("Price: " + cost);

|  |  |
| --- | --- |
| A. | 2.65 |
| B. | Price: 2.65 |
| C. | Price: |
| D. | There is no ouptut due to a syntax error. |
| E. | There is no ouptut due to a runtime error. |

31. **What is the output by the code below?**

double num = 3.5;

System.out.println("Number: " + num);

|  |  |
| --- | --- |
| A. | 3.5 |
| B. | Number: 3.5 |
| C. | Number: |
| D. | There is no ouptut due to a syntax error. |
| E. | There is no ouptut due to a runtime error. |

32. **What is the output by the code below?**

int num = 5;

System.out.println("num");

|  |  |
| --- | --- |
| A. | 5 |
| B. | num 5 |
| C. | num |
| D. | num: 5 |
| E. | num = 5 |

33. **What is the output by the code below?**

System.out.println("Hello ");

System.out.print("people ");

System.out.println("everywhere ");

|  |  |
| --- | --- |
| A. | Hello  people  everywhere |
| B. | Hello people everywhere |
| C. | Hello people  everywhere |
| D. | Hellopeopleeverywhere |
| E. | Hello  people everywhere |

34. **What is the ASCII value of a space?**

|  |  |
| --- | --- |
| A. | 36 |
| B. | 97 |
| C. | 48 |
| D. | 32 |
| E. | 65 |

35. **What is the ASCII value of a ‘0’?**

|  |  |
| --- | --- |
| A. | 36 |
| B. | 97 |
| C. | 48 |
| D. | 32 |
| E. | 65 |

36. **What is output by the following code?**

System.out.println(3+4+""+5);

|  |  |
| --- | --- |
| A. | 345 |
| B. | 39 |
| C. | 75 |
| D. | 12 |
| E. | there is no output due to a compile error |

37. **What is output by the following code?**

System.out.println(3+4+""+5\*3);

|  |  |
| --- | --- |
| A. | 36 |
| B. | 757575 |
| C. | 715 |
| D. | 12 |
| E. | there is no output due to a compile error |

38. **What is output by the following code?**

System.out.println(3+4+""+5-3);

|  |  |
| --- | --- |
| A. | 72 |
| B. | 342 |
| C. | 3 |
| D. | 345-3 |
| E. | there is no output due to a compile error |

39. **What is output by the following code?**

System.out.println(3+4+""+5%5);

|  |  |
| --- | --- |
| A. | 345 |
| B. | 340 |
| C. | 70 |
| D. | 75 |
| E. | there is no output due to a compile error |

40. **What is output by the following code?**

System.out.println(""+3+4+5);

|  |  |
| --- | --- |
| A. | 345 |
| B. | 39 |
| C. | 75 |
| D. | 12 |
| E. | there is no output due to a compile error |