**Unit 2 – Self Test**

1. The pair of characters // is used for single line comments. True
2. The symbol '5' does not belong to the char data type because 5 is a digit. True
3. The data type float is a floating-point data type. True
4. When evaluating a mixed expression, all integer operands are converted to floating-point numbers with the decimal part of zero. True
5. The value of a variable may change during program execution. True
6. The \_\_ syntax \_\_ rules of a programming language tell you which statements are legal, or accepted by the programming language.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | semantic | c. | syntax |
| b. | logical | d. | grammatical |

1. Which of the following is a valid int value?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 3279 | c. | 3270.00 🡸 float |
| b. | 3,279 🡸text | d. | -922337203684547758808 🡸 too long for int, int can be from -2,147,483,647 to +2,147,483,647 |

1. Which of the following is a valid char value?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | '$\_' | c. | 'n\' |
| b. | '%' | d. | “a” |

1. The memory allocated for a double value is \_\_\_\_ bytes.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 2 | c. | 8 |
| b. | 4 | d. | 16 |

Int: 4 bytes, Float: 4 bytes, double: 8 bytes, Char: 1 byte, Boolean: 1 byte

1. The value of the expression 5 + 10 % 4 - 3 is \_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 0 | c. | 4 |
| b. | 2 | d. | 5 |

1. (),[]
2. .
3. ++, --
4. \*,/,%
5. +,-