4.

|  |
| --- |
| Convert the binary number 1001.00102 to decimal. |
| |  |  |  |  | | --- | --- | --- | --- | | [A.](javascript:%20void%200;) | 90.125 | [B.](javascript:%20void%200;) | 9.125 | | [C.](javascript:%20void%200;) | 125 | [D.](javascript:%20void%200;) | 12.5 | |

Ans-B

|  |  |
| --- | --- |
| 6. | Decode the following ASCII message.  10100111010100101010110001001011001 01000001001000100000110100101000100 |
| |  |  | | --- | --- | | [A.](javascript:%20void%200;) | STUDYHARD | | [B.](javascript:%20void%200;) | STUDY HARD | | [C.](javascript:%20void%200;) | stydyhard | | [D.](javascript:%20void%200;) | study hard | |

Ans-B

|  |  |
| --- | --- |
| 8. | One hex digit is sometimes referred to as a(n): |
| |  |  |  |  | | --- | --- | --- | --- | | [A.](javascript:%20void%200;) | byte | [B.](javascript:%20void%200;) | nibble | | [C.](javascript:%20void%200;) | grouping | d. instruction |  | |

Ans\_B

|  |  |
| --- | --- |
| 12. | Convert 8B3F16 to octal. |
| |  |  |  |  | | --- | --- | --- | --- | | [A.](javascript:%20void%200;) | 35647 | [B.](javascript:%20void%200;) | 32 | | [C.](javascript:%20void%200;) | 131743 | [D.](javascript:%20void%200;) | 105477 | |

Ans-D

|  |  |
| --- | --- |
| 27. | A binary number's value changes most drastically when the \_\_\_\_\_\_\_\_ is changed. |
| |  |  | | --- | --- | | [A.](javascript:%20void%200;) | MSB | | [B.](javascript:%20void%200;) | frequency | | [C.](javascript:%20void%200;) | LSB | | [D.](javascript:%20void%200;) | duty cycle | |

Ans:A

|  |  |
| --- | --- |
| 48. | What is the resultant binary of the decimal problem 49 + 01 = ? |
| |  |  |  |  | | --- | --- | --- | --- | | [A.](javascript:%20void%200;) | 01010101 | [B.](javascript:%20void%200;) | 00110101 | | [C.](javascript:%20void%200;) | 00110010 | [D.](javascript:%20void%200;) | 00110001 | |

Ans-C

|  |  |
| --- | --- |
| 55. | Determine the decimal equivalent of the signed binary number 11110100 in 1's complement. |
| |  |  |  |  | | --- | --- | --- | --- | | [A.](javascript:%20void%200;) | 116 | [B.](javascript:%20void%200;) | –12 | | [C.](javascript:%20void%200;) | 11 | [D.](javascript:%20void%200;) | 128 | |

Ans-C

|  |  |
| --- | --- |
| 63. | Convert the decimal number 151.75 to binary. |
| |  |  |  |  | | --- | --- | --- | --- | | [A.](javascript:%20void%200;) | 10000111.11 | [B.](javascript:%20void%200;) | 11010011.01 | | [C.](javascript:%20void%200;) | 00111100.00 | [D.](javascript:%20void%200;) | 10010111.11 | |

Ans-D

|  |
| --- |
| Express the decimal number –37 as an 8-bit number in sign-magnitude. |
| |  |  |  |  | | --- | --- | --- | --- | | [A.](javascript:%20void%200;) | 10100101 | [B.](javascript:%20void%200;) | 00100101 | | [C.](javascript:%20void%200;) | 11011000 | [D.](javascript:%20void%200;) | 11010001 | |

Ans-A

#### What is the decimal value of the hexadecimal number 777?

1. 1911

B 19

c. 191

d. 19111