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CECS 100

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Page 25:

Short Answers

1. The CPU is the most important component in a computer because it is the component that actually runs the programs. Without the CPU, the computer cannot run the software.
2. The number 1 represents a bit that is turned on. A bit that is turned off is 0.
3. A device that works with binary data is called digital data.
4. Keywords, or reserved words are used in making up the high level programming languages.
5. Mnemonic are the short words that are used in assembly language.
6. A compiler is used to translate the high level language to a machine language program where an interpreter both translates and executes the instructions of a high level program.
7. Operating Systems control the internal operations of the computer’s hardware.

Page 26:

Exercise 1:

1. Converting 11 to binary= 1011

|  |  |  |  |
| --- | --- | --- | --- |
| 8 | 4 | 2 | 1 |
| 1 | 0 | 1 | 1 |

1. Converting 65 to binary= 1000001

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 64 | 32 | 16 | 8 | 4 | 2 | 1 |
| 1 | 0 | 0 | 0 | 0 | 0 | 1 |

1. Converting 100 to binary= 1100100

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 64 | 32 | 16 | 8 | 4 | 2 | 1 |
| 1 | 1 | 0 | 0 | 1 | 0 | 0 |

1. Converting 255 to binary= 11111111

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 128 | 64 | 32 | 16 | 8 | 4 | 2 | 1 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

Exercise 2:

1. Binary 1011 to decimal= 11
2. Binary 1000 to decimal= 8
3. Binary 101011 to decimal= 43

Exercise 3:

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1. U= 85
2. M= 77
3. A= 65
4. R= 82