

Control and embedded Systems Tutorial

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Boolean Logic Test Answers

1. C) Boolean Logic
2. A), G) = Operators and Gates
3. D) AND
4. B) OR
5. A) NAND
6. C) NOR
7. D) XOR
8. B) NOT

9) 0xB0 & 0xD9

Operator: AND

Binary for 0xB0: 1011 0000

Binary for 0xD9: 1101 1001

Result of Operation: 1001 0000

HEX Result of Operation: 0x90

10) 0xAF | 0x9C

Operator: OR

Binary for 0xAF: 1010 1111

Binary for 0x9C: 1001 1100

Result of Operation: 1011 1111

HEX Result of Operation: 0xBF

11) 0xC3 ^ 0x7C

Operator: XOR

Binary for 0xC3: 1100 0011

Binary for 0x7C: 0111 1100

Result of Operation: 1011 1111

HEX Result of Operation: 0xBF

12) ~0x85

Operator: NOT

Binary for 0x85: 1000 0101

Result of Operation: 0111 1010

HEX Result of Operation: 0x7A

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