

Question 1: Which logic gate does the following truth table represent?

Truth Table:

A	B	Q
0	0	0
0	1	1
1	0	1
1	1	1

Option 1: NOR

Option 2: OR

Option 3: AND

Option 4: NAND

Option 5: XNOR

Option 6: XOR

Correct Answer: OR

Question 2: Which logic gate does the following truth table represent?

Truth Table:

A	B	Q
0	0	1
0	1	0
1	0	0
1	1	0

Option 1: XNOR

Option 2: AND

Option 3: OR

Option 4: NAND

Option 5: NOR

Option 6: XOR

Correct Answer: NOR

Question 3: Which logic gate does the following truth table represent?

Truth Table:

A	B	Q
0	0	1
0	1	1
1	0	1
1	1	0

Option 1: AND

Option 2: XNOR

Option 3: XOR

Option 4: NOR

Option 5: NAND

Option 6: OR

Correct Answer: NAND

Question 4: Which logic gate does the following truth table represent?

Truth Table:

A	B	Q
0	0	0
0	1	1
1	0	1
1	1	1

Option 1: XNOR

Option 2: OR

Option 3: XOR

Option 4: NAND

Option 5: NOR

Option 6: AND

Correct Answer: OR



Question 5: Which logic gate does the following truth table represent?

Truth Table:

A	B	Q
0	0	0
0	1	1
1	0	1
1	1	0

Option 1: NOR

Option 2: XNOR

Option 3: AND

Option 4: OR

Option 5: XOR

Option 6: NAND

Correct Answer: XOR

Question 6: Which logic gate does the following truth table represent?

Truth Table:

A	B	Q
0	0	1
0	1	1
1	0	1
1	1	0

Option 1: OR

Option 2: AND

Option 3: NAND

Option 4: XNOR

Option 5: XOR

Option 6: NOR

Correct Answer: NAND

Question 7: Which logic gate does the following truth table represent?

Truth Table:

A	B	Q
0	0	0
0	1	1
1	0	1
1	1	0

Option 1: XNOR

Option 2: AND

Option 3: NAND

Option 4: NOR

Option 5: XOR

Option 6: OR

Correct Answer: XOR

Question 8: Which logic gate does the following truth table represent?

Truth Table:

A	B	Q
0	0	1
0	1	1
1	0	1
1	1	0

Option 1: AND

Option 2: NOR

Option 3: XNOR

Option 4: XOR

Option 5: NAND

Option 6: OR

Correct Answer: NAND



Question 9: Which logic gate does the following truth table represent?

Truth Table:

A	B	Q
0	0	0
0	1	1
1	0	1
1	1	1

Option 1: XOR

Option 2: NAND

Option 3: XNOR

Option 4: NOR

Option 5: AND

Option 6: OR

Correct Answer: OR

Question 10: Which logic gate does the following truth table represent?

Truth Table:

A	B	Q
0	0	1
0	1	0
1	0	0
1	1	1

Option 1: XNOR

Option 2: NAND

Option 3: OR

Option 4: XOR

Option 5: NOR

Option 6: AND

Correct Answer: XNOR