

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

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

(a) ~~NAND~~

(b) ~~XOR~~

Correct Answer: NAND

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

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

(a) ~~NAND~~

(b) ~~NOR~~

Correct Answer: NAND

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

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

(a) ~~OR~~OR

(b) N~~OR~~D

Correct Answer: XNOR

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

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

(a) ~~NOR~~

(b) ~~NORD~~

Correct Answer: NOR

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

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

(a) ~~XOR~~

(b) ~~NOR~~

Correct Answer: NAND

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

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

(a) ~~NOR~~

(b) ~~XNOR~~

Correct Answer: XNOR

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

A

B

Q

0

0

0

0

1

0

1

0

0

1

1

1

(a) ~~NAND~~

(b) ~~XOR~~

Correct Answer: AND

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

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

(a) ~~XOR~~

(b) ~~OR~~

Correct Answer: XNOR

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

A

B

Q

0

0

0

0

1

0

1

0

0

1

1

1

(a) ~~AND~~R

(b) ~~O~~~~R~~ND

Correct Answer: AND

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

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

(a) ~~NOR~~

(b) ~~AND~~

Correct Answer: XNOR