

Question 1: 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) NAND
- (c) AND

- (b) XNOR
- (d) NOR

Correct Answer: XNOR

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) AND
- (c) NOR

- (b) OR
- (d) NAND

Correct Answer: NAND

Question 3: 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
- (c) AND
- (d) NOR

Correct Answer: NAND

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	1

- (a) NOR
- (c) XNOR

- (b) AND
- (d) OR

Correct Answer: XNOR

Question 5: 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
- (c) NOR

- (b) NAND
- (d) XNOR

Correct Answer: XNOR

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

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

- (a) XOR
- (c) OR

- (b) XNOR
- (d) NOR

Correct Answer: OR

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

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

- (a) OR
- (c) XNOR

- (b) AND
- (d) NAND

Correct Answer: OR

Question 8: 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) AND
- (c) XOR
- (d) OR

Correct Answer: AND

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

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

- (a) XOR
- (c) NOR

- (b) NAND
- (d) AND

Correct Answer: XOR

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) AND
- (c) OR

- (b) XOR
- (d) XNOR

Correct Answer: XNOR