

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

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

- (a) NOR
- (c) XOR

- (b) OR
- (d) XNOR

Correct Answer: OR

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

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

- (a) XOR
- (c) AND

- (b) NAND
- (d) XNOR

Correct Answer: XNOR

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

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

- (a) OR
- (b) AND
- (c) NAND
- (d) XOR

Correct Answer: XOR

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

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

- (a) OR
- (c) NAND

- (b) XNOR
- (d) XOR

Correct Answer: XOR

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

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

- (a) XOR
- (c) NOR

- (b) OR
- (d) NAND

Correct Answer: NAND

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

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

(a) NAND  
(c) OR

(b) XNOR  
(d) XOR

Correct Answer: NAND

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

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

- (a) NOR
- (c) NAND

- (b) OR
- (d) XNOR

Correct Answer: OR

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

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

- (a) NOR

(b) OR
- (c) AND

(d) NAND

Correct Answer: NOR



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

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

- (a) OR
- (c) XOR

- (b) NAND
- (d) XNOR

Correct Answer: XOR

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

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

(a) XNOR  
(c) AND

(b) NAND  
(d) NOR

Correct Answer: NOR