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

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

(a) OR
(b) XOR
(c) NAND
(d) NOR

Correct Answer: OR

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

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

(a) NAND
(b) XNOR
(c) NOR
(d) XOR

Correct Answer: NAND

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

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

(a) XOR
(b) NAND
(c) NOR
(d) OR

Correct Answer: NAND

Question 4: 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) NAND
(b) XOR
(c) OR
(d) XNOR

Correct Answer: XOR

Question 5: 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) NOR
(b) XNOR
(c) OR
(d) AND

Correct Answer: XNOR

Question 6: 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) XOR
(b) AND
(c) NOR
(d) XNOR

Correct Answer: XNOR

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

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

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

Correct Answer: AND

Question 8: 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) AND
(b) XNOR
(c) XOR
(d) NOR

Correct Answer: XNOR

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	0

(a) XOR
(b) NOR
(c) NAND
(d) XNOR

Correct Answer: XNOR

Question 10: 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) AND
(b) XOR
(c) XNOR
(d) OR

Correct Answer: OR