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) NOR

(b) XNOR

(c) AND

(d) OR

Correct Answer: XNOR

Question 2: 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) AND   (b) NOR
(c) OR   (d) XOR

Correct Answer: XOR

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	0

(a) NOR

(b) XNOR

(c) AND

(d) NAND

Correct Answer: NOR

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

Correct Answer: XOR

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) AND   (b) NAND
(c) NOR   (d) OR

Correct Answer: NAND

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	0

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

Correct Answer: XOR

Question 7: 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) XNOR
(c) NOR   (d) OR

Correct Answer: XNOR

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
(c) XNOR   (d) NOR

Correct Answer: XNOR

Question 9: 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
(c) AND   (d) NAND

Correct Answer: XNOR

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

Correct Answer: XNOR