

Question 1: What is the truth table for the expression: A and B

Options:

- 1. Option A
- 2. Option B

Option A: Correct Answer

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

Option B: Incorrect Answer

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

Question 2: What is the truth table for the expression: not (A and B)

Options:

- 1. Option A
- 2. Option B

Option A: Correct Answer

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

Option B: Incorrect Answer

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

Question 3: What is the truth table for the expression: A or not B and C

Options:

- 1. Option A
- 2. Option B

Option A: Correct Answer

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

Option B: Incorrect Answer

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

Question 4: What is the truth table for the expression: not (A and B and C)

Options:

- 1. Option A
- 2. Option B

Option A: Correct Answer

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

Option B: Incorrect Answer

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

Question 5: What is the truth table for the expression: A or not B

Options:

- 1. Option A
- 2. Option B

Option A: Correct Answer

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

Option B: Incorrect Answer

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