

Truth Table Validation Quiz

Question 1: Is the following expression correct for the given truth table?

Expression: $((C) \text{ and } (A)) \text{ or } (\text{not } (C))$

Options

1. True

2. False

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

Question 2: Is the following expression correct for the given truth table?

Expression: $(B) \text{ and } (C)$

Options

1. True

2. False

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

Question 3: Is the following expression correct for the given truth table?

Expression: $(B) \text{ and } (\text{not } (A))$

Options

1. True

2. False

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

Question 4: Is the following expression correct for the given truth table?

Expression: $((A) \text{ or } (A)) \text{ or } (\text{not } (B))$

Options

1. True

2. False

A	B	C	Q
0	0	0	1
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

Question 5: Is the following expression correct for the given truth table?

Expression: (((B) or (not (B))) or (not (B))) and (B)

Options

- 1. True
- 2. False

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

Question 6: Is the following expression correct for the given truth table?

Expression: (((A) and (not (B))) and (B)) and (B)

Options

- 1. True
- 2. False

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

Question 7: Is the following expression correct for the given truth table?

Expression: ((B) or (not (B))) and (C)

Options

1. True

2. False

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

Answer Key

Question 1: (1) True

Question 2: (1) True

Question 3: (1) True

Question 4: (1) True

Question 5: (1) True

Question 6: (2) False

Question 7: (2) False