Truth Table Validation Quiz

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

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

Options

1. True

2. False

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

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

Expression: ((B) or (A)) or (B)

Options

1. True

2. False

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

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

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

Options

1. True

2. False

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

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

Expression: (A) or (B)

Options

1. True

2. False

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

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

Expression: (A) and (B)

Options

1. True

2. False

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	0
1	1	0	1
1	1	1	1

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

Expression: (C) and (A)

Options

1. True

2. False

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	1

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

Expression: (((A) or (not (A))) or (not (C))) and (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	0
1	1	1	0

Question 8: Is the following expression correct for the given truth table?

Expression: (((B) and (A)) or (B)) or (B)

Options

1. True

2. False

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

Question 9: Is the following expression correct for the given truth table?

Expression: ((A) and (A)) or (A)

Options

1. True

2. False

A	B	C	Q
0	0	0	0
0	0	1	0
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 10: Is the following expression correct for the given truth table?

Expression: ((C) or (A)) or (A)

Options

1. True

2. False

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

Question 11: Is the following expression correct for the given truth table?

Expression: (B) and (B)

Options

1. True

2. False

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

Question 12: Is the following expression correct for the given truth table?

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

Options

1. True

2. False

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

Question 13: Is the following expression correct for the given truth table?

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

Options

1. True

2. False

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

Question 14: Is the following expression correct for the given truth table?

Expression: (A) or (not (A))

Options

1. True

2. False

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

Question 15: Is the following expression correct for the given truth table?

Expression: (A) and (not (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	0
1	0	0	1
1	0	1	0
1	1	0	1
1	1	1	0

Question 16: Is the following expression correct for the given truth table?

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

Options

1. True

2. False

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

Question 17: Is the following expression correct for the given truth table?

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

Options

1. True

2. False

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

Question 18: Is the following expression correct for the given truth table?

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

Options

1. True

2. False

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

Question 19: Is the following expression correct for the given truth table?

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

Options

1. True

2. False

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

Question 20: Is the following expression correct for the given truth table?

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

Options

1. True

2. False

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

Question 21: Is the following expression correct for the given truth table?

Expression: (B) 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 22: Is the following expression correct for the given truth table?

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

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	0
1	0	1	0
1	1	0	0
1	1	1	0

Question 23: Is the following expression correct for the given truth table?

Expression: (((C) or (A)) and (not (B))) or (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	1
1	0	0	1
1	0	1	0
1	1	0	1
1	1	1	1

Question 24: Is the following expression correct for the given truth table?

Expression: ((C) and (not (B))) and (not (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	0
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	1

Question 25: Is the following expression correct for the given truth table?

Expression: (C) and (not (C))

Options

1. True

2. False

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

Question 26: Is the following expression correct for the given truth table?

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

Options

1. True

2. False

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	1

Question 27: Is the following expression correct for the given truth table?

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

Options

1. True

2. False

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

Question 28: Is the following expression correct for the given truth table?

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

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	1
1	0	1	1
1	1	0	1
1	1	1	1

Question 29: Is the following expression correct for the given truth table?

Expression: (((A) or (not (A))) or (not (A))) or (B)

Options

1. True

2. False

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

Answer Key

Question 1: (1) True

Question 2: (1) True

Question 3: (1) True

Question 4: (1) True

Question 5: (1) True

Question 6: (1) True

Question 7: (1) True

Question 8: (1) True

Question 9: (1) True

Question 10: (1) True

Question 11: (1) True

Question 12: (1) True

Question 13: (1) True

Question 14: (1) True

Question 15: (1) True

Question 16: (1) True

Question 17: (1) True

Question 18: (1) True

Question 19: (1) True

Question 20: (1) True

Question 21: (1) True

Question 22: (2) False

Question 23: (2) False

Question 24: (2) False

Question 25: (2) False

Question 26: (2) False

Question 27: (2) False

Question 28: (2) False

Question 29: (2) False