Question 1: Which expression corresponds to the given truth table?

Truth Table:

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	1
1	1	1	1

Option 1: ((E) or (A)) and (not (B))

Option 2: (((C) and (not (E))) and (D)) and (not (C))

Option 3: (((E) or (not (A))) and (B)) or (B)

Option 4: (B) and (B)

Correct Answer: (B) and (B)

Question 2: Which expression corresponds to the given truth table?

Truth Table:

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

Option 1: (D) or (C)

Option 2: (B) or (not (A))

Option 3: (((A) or (not (D))) and (C)) or (A)

Option 4: (D) and (not (E))

Correct Answer: (D) or (C)

Question 3: Which expression corresponds to the given truth table?

Truth Table:

A	B	C	D	E	Q
0	0	0	0	0	1
0	0	0	0	1	1
0	0	0	1	0	1
0	0	0	1	1	1
0	0	1	0	0	1
0	0	1	0	1	1
0	0	1	1	0	1
0	0	1	1	1	1
0	1	0	0	0	0
0	1	0	0	1	0
0	1	0	1	0	0
0	1	0	1	1	0
0	1	1	0	0	0
0	1	1	0	1	0
0	1	1	1	0	0
0	1	1	1	1	0
1	0	0	0	0	1
1	0	0	0	1	1
1	0	0	1	0	1
1	0	0	1	1	1
1	0	1	0	0	1
1	0	1	0	1	1
1	0	1	1	0	1
1	0	1	1	1	1
1	1	0	0	0	0
1	1	0	0	1	0
1	1	0	1	0	0
1	1	0	1	1	0
1	1	1	0	0	0
1	1	1	0	1	0
1	1	1	1	0	0
1	1	1	1	1	0

Option 1: ((A) and (C)) or (E)

Option 2: ((E) and (C)) and (D)

Option 3: (((C) and (B)) or (B)) and (not (C))

Option 4: (((A) or (not (D))) and (not (B))) or (not (B))

Correct Answer: (((A) or (not (D))) and (not (B))) or (not (B))

Question 4: Which expression corresponds to the given truth table?

Truth Table:

A	B	C	D	E	Q
0	0	0	0	0	0
0	0	0	0	1	0
0	0	0	1	0	1
0	0	0	1	1	1
0	0	1	0	0	0
0	0	1	0	1	0
0	0	1	1	0	1
0	0	1	1	1	1
0	1	0	0	0	0
0	1	0	0	1	0
0	1	0	1	0	1
0	1	0	1	1	1
0	1	1	0	0	0
0	1	1	0	1	0
0	1	1	1	0	1
0	1	1	1	1	1
1	0	0	0	0	0
1	0	0	0	1	0
1	0	0	1	0	1
1	0	0	1	1	1
1	0	1	0	0	0
1	0	1	0	1	0
1	0	1	1	0	1
1	0	1	1	1	1
1	1	0	0	0	0
1	1	0	0	1	0
1	1	0	1	0	1
1	1	0	1	1	1
1	1	1	0	0	0
1	1	1	0	1	0
1	1	1	1	0	1
1	1	1	1	1	1

Option 1: (((E) or (not (B))) or (B)) and (not (C))

Option 2: (B) or (A)

Option 3: (D) and (D)

Option 4: (C) and (not (C))

Correct Answer: (D) and (D)

Question 5: Which expression corresponds to the given truth table?

Truth Table:

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

Option 1: ((B) and (not (D))) and (not (A))

Option 2: (((C) or (not (D))) and (D)) or (B)

Option 3: ((B) and (B)) or (not (E))

Option 4: (D) and (not (B))

Correct Answer: (((C) or (not (D))) and (D)) or (B)

Question 6: Which expression corresponds to the given truth table?

Truth Table:

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

Option 1: ((D) and (not (C))) or (not (A))

Option 2: (E) or (not (A))

Option 3: (((A) or (B)) and (not (E))) or (not (B))

Option 4: (C) or (B)

Correct Answer: (C) or (B)

Question 7: Which expression corresponds to the given truth table?

Truth Table:

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

Option 1: ((E) or (not (A))) or (not (B))

Option 2: (A) and (B)

Option 3: (((E) or (A)) and (A)) or (B)

Option 4: ((C) or (C)) and (C)

Correct Answer: (A) and (B)

Question 8: Which expression corresponds to the given truth table?

Truth Table:

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

Option 1: (D) or (A)

Option 2: (E) and (not (A))

Option 3: ((C) or (not (B))) and (C)

Option 4: (((E) and (B)) or (not (E))) or (E)

Correct Answer: ((C) or (not (B))) and (C)

Question 9: Which expression corresponds to the given truth table?

Truth Table:

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

Option 1: (((C) and (not (B))) and (not (D))) or (A)

Option 2: ((A) and (not (A))) or (B)

Option 3: ((D) or (not (C))) and (not (E))

Option 4: ((A) or (not (B))) and (not (E))

Correct Answer: ((A) and (not (A))) or (B)

Question 10: Which expression corresponds to the given truth table?

Truth Table:

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

Option 1: (D) or (not (D))

Option 2: ((A) and (D)) and (not (B))

Option 3: (((C) and (not (B))) and (not (E))) or (not (C))

Option 4: (B) and (C)

Correct Answer: (D) or (not (D))

Question 11: Which expression corresponds to the given truth table?

Truth Table:

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

Option 1: (E) and (A)

Option 2: ((A) and (not (B))) or (B)

Option 3: ((D) or (B)) or (not (A))

Option 4: (D) or (C)

Correct Answer: ((A) and (not (B))) or (B)

Question 12: Which expression corresponds to the given truth table?

Truth Table:

A	B	C	Q
0	0	0	0
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

Option 1: (E) or (E)

Option 2: ((A) and (not (C))) and (not (D))

Option 3: ((D) and (D)) or (not (B))

Option 4: (((B) and (not (A))) and (not (C))) or (A)

Correct Answer: (((B) and (not (A))) and (not (C))) or (A)

Question 13: Which expression corresponds to the given truth table?

Truth Table:

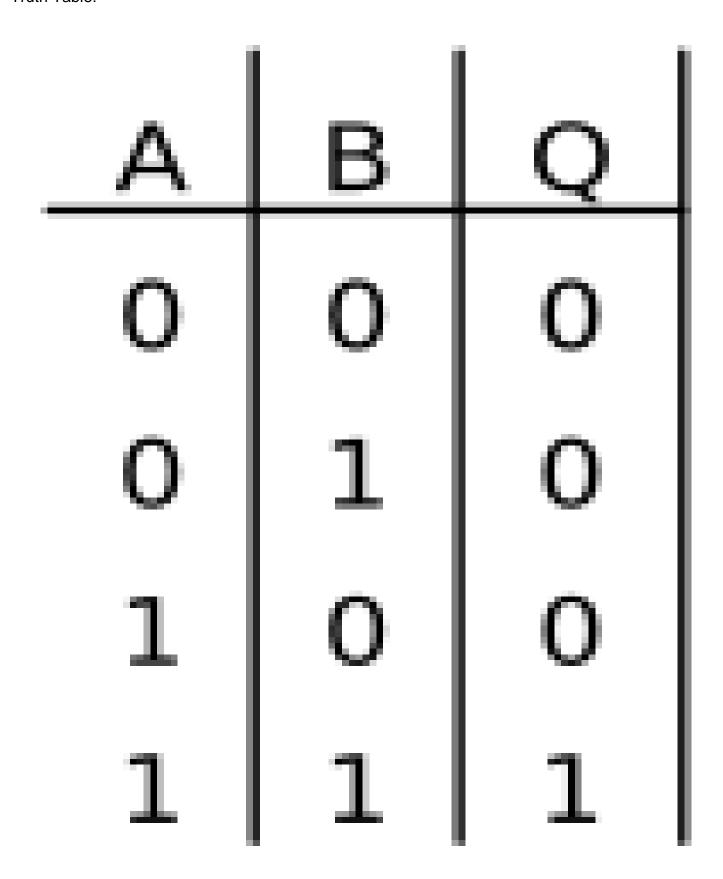| A	B	C	D	E	Q
0	0	0	0	0	1
0	0	0	0	1	1
0	0	0	1	0	0
0	0	0	1	1	0
0	0	1	0	0	1
0	0	1	0	1	1
0	0	1	1	0	0
0	0	1	1	1	0
0	1	0	0	0	1
0	1	0	0	1	1
0	1	0	1	0	0
0	1	0	1	1	0
0	1	1	0	0	1
0	1	1	0	1	1
0	1	1	1	0	0
0	1	1	1	1	0
1	0	0	0	0	1
1	0	0	0	1	1
1	0	0	1	0	1
1	0	0	1	1	1
1	0	1	0	0	1
1	0	1	0	1	1
1	0	1	1	0	1
1	0	1	1	1	1
1	1	0	0	0	1
1	1	0	0	1	1
1	1	0	1	0	1
1	1	0	1	1	1
1	1	1	0	0	1
1	1	1	0	1	1
1	1	1	1	0	1
1	1	1	1	1	1

Option 1: (C) or (not (E))

Option 2: (A) or (not (D))

Option 3: ((E) and (D)) and (A)

Option 4: (C) and (not (B))

Correct Answer: (A) or (not (D))

Question 14: Which expression corresponds to the given truth table?

Truth Table:

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

Option 1: (E) or (E)

Option 2: (((C) and (not (A))) or (B)) or (not (A))

Option 3: (((D) and (A)) or (not (D))) or (C)

Option 4: ((B) and (A)) and (A)

Correct Answer: ((B) and (A)) and (A)

Question 15: Which expression corresponds to the given truth table?

Truth Table:

A	B	C	D	E	Q
0	0	0	0	0	1
0	0	0	0	1	1
0	0	0	1	0	1
0	0	0	1	1	1
0	0	1	0	0	1
0	0	1	0	1	1
0	0	1	1	0	1
0	0	1	1	1	1
0	1	0	0	0	1
0	1	0	0	1	1
0	1	0	1	0	0
0	1	0	1	1	0
0	1	1	0	0	1
0	1	1	0	1	1
0	1	1	1	0	1
0	1	1	1	1	1
1	0	0	0	0	1
1	0	0	0	1	1
1	0	0	1	0	0
1	0	0	1	1	0
1	0	1	0	0	1
1	0	1	0	1	1
1	0	1	1	0	0
1	0	1	1	1	0
1	1	0	0	0	1
1	1	0	0	1	1
1	1	0	1	0	0
1	1	0	1	1	0
1	1	1	0	0	1
1	1	1	0	1	1
1	1	1	1	0	0
1	1	1	1	1	0

Option 1: (((C) or (B)) or (not (D))) or (B)

Option 2: (((A) and (not (B))) or (not (A))) or (D)

Option 3: (((C) or (not (B))) and (not (A))) or (not (D))

Option 4: ((C) and (not (D))) and (D)

Correct Answer: (((C) or (not (B))) and (not (A))) or (not (D))

Question 16: Which expression corresponds to the given truth table?

Truth Table:

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

Option 1: (((D) or (B)) and (B)) and (E)

Option 2: (A) or (C)

Option 3: (((A) and (not (D))) and (not (C))) and (not (D))

Option 4: (D) or (D)

Correct Answer: (A) or (C)

Question 17: Which expression corresponds to the given truth table?

Truth Table:

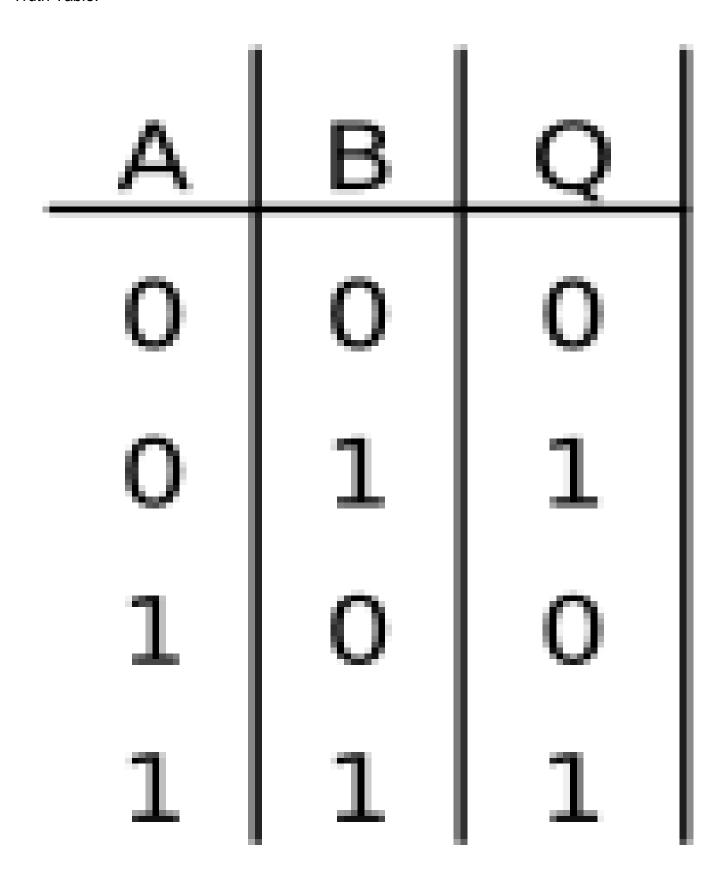| A	B	C	D	Q
0	0	0	0	1
0	0	0	1	1
0	0	1	0	0
0	0	1	1	0
0	1	0	0	1
0	1	0	1	1
0	1	1	0	0
0	1	1	1	0
1	0	0	0	1
1	0	0	1	1
1	0	1	0	0
1	0	1	1	0
1	1	0	0	1
1	1	0	1	1
1	1	1	0	0
1	1	1	1	0

Option 1: ((E) or (C)) or (not (D))

Option 2: ((B) or (A)) or (not (B))

Option 3: (E) and (D)

Option 4: (((B) or (not (B))) or (D)) and (not (C))

Correct Answer: (((B) or (not (B))) or (D)) and (not (C))

Question 18: Which expression corresponds to the given truth table?

Truth Table:

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

Option 1: ((B) and (not (E))) and (D)

Option 2: (B) or (B)

Option 3: ((C) or (D)) and (D)

Option 4: (((E) or (not (B))) or (D)) or (C)

Correct Answer: (B) or (B)

Question 19: Which expression corresponds to the given truth table?

Truth Table:

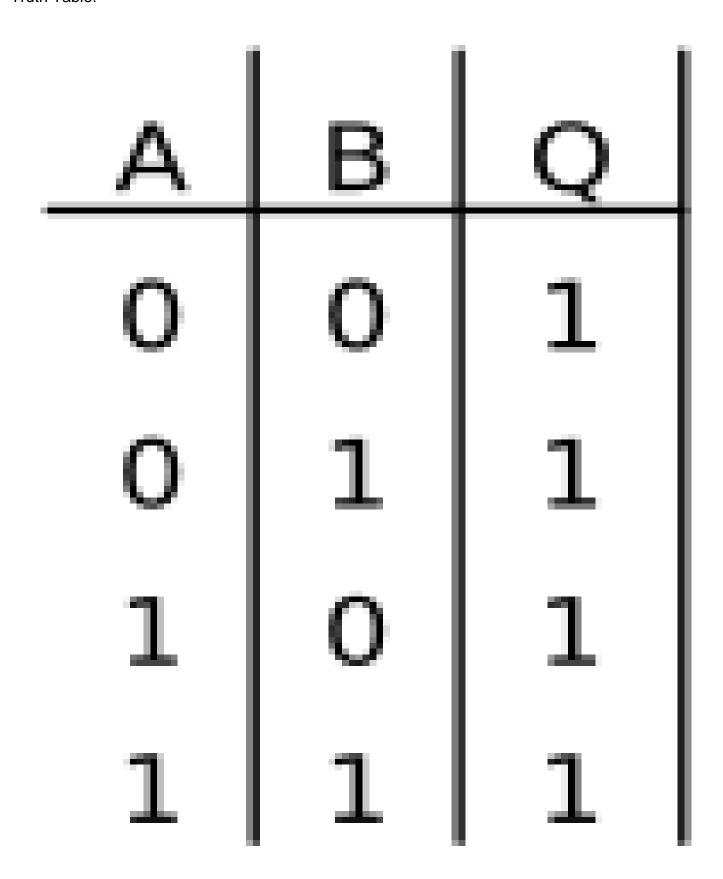| A	B	C	D	Q
0	0	0	0	1
0	0	0	1	1
0	0	1	0	1
0	0	1	1	1
0	1	0	0	1
0	1	0	1	0
0	1	1	0	1
0	1	1	1	0
1	0	0	0	1
1	0	0	1	1
1	0	1	0	1
1	0	1	1	1
1	1	0	0	1
1	1	0	1	0
1	1	1	0	1
1	1	1	1	0

Option 1: ((E) or (not (A))) or (A)

Option 2: (((B) and (B)) and (not (E))) and (not (D))

Option 3: ((B) and (not (D))) or (not (B))

Option 4: ((C) and (E)) or (not (D))

Correct Answer: ((B) and (not (D))) or (not (B))

Question 20: Which expression corresponds to the given truth table?

Truth Table:

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

Option 1: (C) or (C)

Option 2: (((D) and (not (D))) and (E)) or (not (B))

Option 3: (((A) or (not (A))) or (B)) or (A)

Option 4: ((B) and (not (D))) or (C)

Correct Answer: (((A) or (not (A))) or (B)) or (A)