Started on	Thursday, 15 April 2021, 5:27 PM
State	Finished
Completed on	Thursday, 15 April 2021, 5:37 PM
Time taken	10 mins 1 sec

Question 1

Complete

Marked out of 1.00

if we have 5 bit input then how many input combination is possible?

Select one:

- a. 16
- b. 8
- c. 32
- d. 64

Your answer is correct.

The correct answer is: 32

Question 2

Complete

Marked out of 1.00

What will be the minimal form of function F(A, B, C, D) = Σm(0, 1, 2, 5, 7, 8, 9, 10, 13, 15) ?

Select one:

- a. F(A, B, C, D) = BD' + C'D + B'D'
- b. F(A, B, C, D) = BD + C'D + B'D'
- c. F(A, B, C, D) = BD + CD + B'D'
- d. F(A, B, C, D) = BD + C'D + B'D
- e. None of the given

Your answer is incorrect.

The correct answer is: F(A, B, C, D) = BD + C'D + B'D'

Question 3

Complete

Marked out of 1.00

Which gates are required to construct the XOR gates

Select one or more:

- [x] a. NAND Gate Only
- [ ] b. NOR Gate Only
- [ ] c. AND, OR gate only
- [ ] d. XNOR, Not Gate Only

Your answer is partially correct.

You have correctly selected 1.

The correct answers are: NAND Gate Only, NOR Gate Only, XNOR, Not Gate Only

Question 4

Complete

Marked out of 1.00

Which can be used to calculate 1's complement easily?

Select one or more:

- [x] a. Inverter
- [ ] b. Nor gate
- [ ] c. Adder
- [ ] d. XOR gate

Your answer is partially correct.

You have correctly selected 1.

The correct answers are: Inverter, Nor gate, XOR gate

Question 5

Complete

Marked out of 1.00

what will be 8 ,4, -2,-1 code for 14?

Select one:

- (•) a. 01000111
- ( ) b. 01110100
- ( ) c. None of above
- ( ) d. 00010100

Your answer is incorrect.

The correct answer is: 01110100

Question 6

Complete

Marked out of 1.00

Convert the binary number 0001.0010 to decimal

Select one:

- a. 1.20
- b. 1.125
- c. 1.40
- d. 1.80

Your answer is correct.

The correct answer is: 1.125

Question 7

Complete

Marked out of 1.00

Which of the following combinations cannot be combined into K-map groups?

Select one:

- a. Corners in the same column
- b. overlapping combinations
- c. Diagonal
- d. corners in the same row

Your answer is correct.

The correct answer is: Diagonal

Question 8

Complete

Marked out of 1.00

The Boolean equation F = Π A, B, C (1, 4, 6) = (A + B + C) * (A + B′ + C′) * (A + B′ + C′) is in POS form. Its equivalent equation in SOP would be:

Select one:

- a. F = ∑ A, B, C (0, 2, 3, 5, 7) = A.B.C′ + A B′ C′ + A B′ C + ABC′ + ABC
- b. None of given
- c. F = ∑ A, B, C (0, 2, 3, 5, 7) = A.B.C′ + A B′ C′ + A B′ C + ABC′ + ABC
- d. F = ∑ A, B, C (0, 2, 3, 5, 7) = A.B.C′ + A B′ C′ + A B′ C + ABC + ABC
- e. F = ∑ A, B, C (0, 2, 3, 5, 7) = A.B.C′ + A B′ C′ + A B C + ABC′ + ABC

Your answer is correct.

The correct answer is: None of given

Question 9

Not answered

Marked out of 1.00

If we connect the inputs of nand gates togather, then it should act as:

Select one:

- a. XOR Gate
- b. OR Gate
- c. AND Gate
- d. NOT Gate

Your answer is incorrect.

The correct answer is: NOT Gate

Question 10

Complete

Marked out of 1.00

What will be the minimal form of F(A, B, C, D) = Σm(1, 3, 4, 6, 8, 9, 11, 13, 15) + Σd(0, 2, 14) using K- Map?

Select one:

- a. F(A, B, C, D) = AD + B'D' + B'C' + A'D'
- b. F(A, B, C, D) = AD' + B'D + B'C' + A'D'
- c. None of the given
- d. F(A, B, C, D) = AD + B'D + B'C' + A'D'
- e. F(A, B, C, D) = AD + B'D + B'C + A'D'

Your answer is correct.

The correct answer is: None of the given