Started on	Tuesday, 8 November 2022, 10:10 AM
State	Finished
Completed on	Tuesday, 8 November 2022, 10:24 AM
Time taken	14 mins 54 secs
Grade	**6.00** out of 10.00 (**60**%)

Question 1

Correct   Mark 1.00 out of 1.00

What is the answer of the following Binary Fractions converts into Decimal Fractions?

10111.111_2

Select one:

   ○ a. 22.875

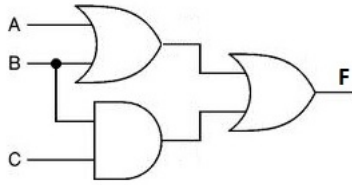◉ b. 23.875 ✔

   ○ c. 23.877

   ○ d. 23.855

Your answer is correct.

The correct answer is: 23.875

Question 2

Correct   Mark 1.00 out of 1.00

Which of the following expression represents the Output (F) of this circuit?

Select one:

○ a.
(A+B)+(BC) ✔

○ b. (A+B).(BC)

○ c.
(AB).(B+C)

○ d.
(A+B)+(B+C)
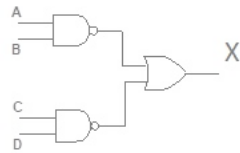
Your answer is correct.

The correct answer is:
(A+B)+(BC)

Question 3

Correct   Mark 1.00 out of 1.00

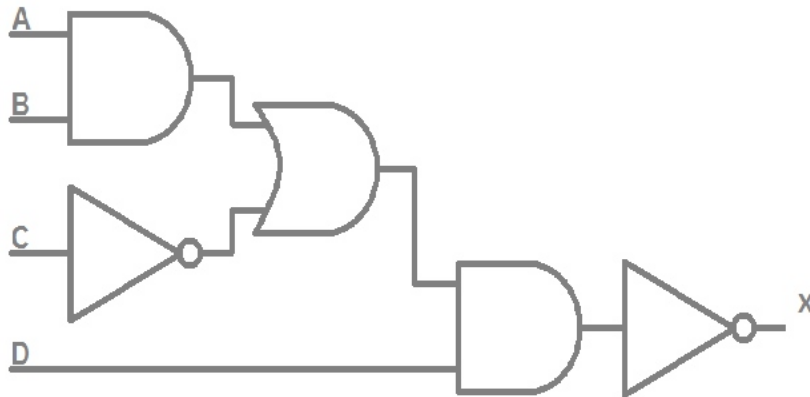What the suitable circuit for the given expression?

X=(AB)'+(CD)'

Select one:

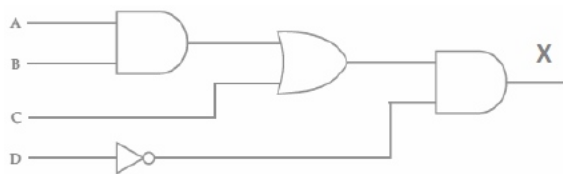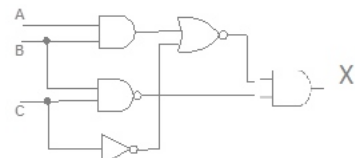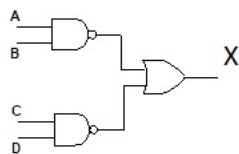○ a.   ✔

○ b.

○ c.

○ d.

Your answer is correct.

The correct answer is:

Question 4

Correct   Mark 1.00 out of 1.00

What would be the answer of the following binary addition?

1011001 + 111010 = ?

8 bits representative

Select one:

- ○ a. 10011011
- ○ b. 01010011
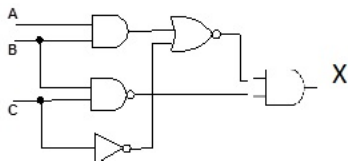- ○ c. 10010010
- ◉ d. 10010011 ✔

Your answer is correct.

The correct answer is: 10010011

Question 5

Correct   Mark 1.00 out of 1.00

What is the expression of the following logical circuit?

Select one:

- ○ a. X=(BC)'(AC+C')'
- ○ b. X=(AC)'(AB+C')'
- ○ c. X=(BA)'(AB+C')'
- ◉ d. X=(BC)'(AB+C')' ✔

Your answer is correct.

The correct answer is: X=(BC)'(AB+C')'

Question 6

Incorrect   Mark 0.00 out of 1.00

8 bits digital system is required to subtract the following two decimal numbers

115-27

What would be the answer in binary form?

Select one:

- ○ a. 01010111
- ○ b. 01011111
- ◉ c. 101010111 ✖
- ○ d. 11010101

> Your answer is incorrect.
>
> The correct answer is: 01010111

Question 7

Incorrect   Mark 0.00 out of 1.00

What are the derived logic gates ?

Select one:

- ○ a. XNOR and OR
- ○ b.
  NAND and NOR
- ◉ c. NAND and AND ✖
- ○ d. AND an OR

> Your answer is incorrect.
>
> The correct answer is:
> NAND and NOR

Question 8

Correct   Mark 1.00 out of 1.00

One of the disadvantage of the signed magnitude is?

Select one:

○ a. One of the bit patterns is wasted ✔

○ b. One of the bit patterns is not wasted

○ c.
It is easy to determine whether a number is negative or non negative

○ d. ALU overflow

Your answer is correct.

The correct answer is: One of the bit patterns is wasted

Question 9

Incorrect   Mark 0.00 out of 1.00

What are the two types of Registers in the processor?

Select one:

○ a. Use and User visible ✖

○ b. Visible and Invisible

○ c. Control and Non control

○ d. User-visible and Control and status

Your answer is incorrect.

The correct answer is: User-visible and Control and status

Question 10

Incorrect   Mark 0.00 out of 1.00

Identify the three types of Hazards

Select one:

○ a. Resources, hard disk and management ✖

○ b. Disk, control and user input

○ c. Resources, data and control

○ d. Control, data and fetch

Your answer is incorrect.

The correct answer is: Resources, data and control

◄ Lecture 12 (Processor Structure)

Jump to...