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Started on Friday, 18 February 2022, 1:55 PM

State Finished

Completed on Friday, 18 February 2022, 2:02 PM

Time taken 7 mins 9 secs

Marks 5.00/5.00

Grade **10.00** out of 10.00 (**100%**)

Question **1**

Complete

Mark 1.00 out of 1.00

The two numbers given below are multiplied using Booth's algorithm.

Multiplicand : 0101 1010 1110 1110

Multiplier: 0111 0111 1011 1101

How many additions/Subtractions are required for ?

- ☐ a. 3 subtractions and 4 additions
- ☒ b. 4 subtractions and 4 additions
- ☐ c. 4 subtractions and 3 additions
- ☐ d. 3 subtractions and 3 additions

Question **2**

Complete

Mark 1.00 out of 1.00

When both integer are +ve i.e. (+ve) x (+ve) = (+ve) and Multiply 7 with 3 and register size is 4 bit. Choose the correct option?

- ☒ a. 4 Cycles are required to complete the multiplication
- ☐ b. 3 Cycles are required to complete the multiplication
- ☐ c. 5 Cycles are required to complete the multiplication
- ☐ d. 7 Cycles are required to complete the multiplication

Question **3**

Complete

Mark 1.00 out of 1.00

Using Booth's Algorithm for multiplication, the multiplier -57 will be recorded as?

- ☐ a. **0 -1 0 0 1 1 1 -1**
- ☐ b. **None of the mentioned**
- ☒ c. **0 -1 0 0 1 0 0 -1**
- ☐ d. **0 -1 0 0 1 0 1 -1**

Question **4**

Complete

Mark 1.00 out of 1.00

for B= 0 0 0 1 1 1 0 0 0 1 1 what will be the arithmetic shift right ?

- ☐ a. 0 0 0 0 1 1 1 0 0 0 0 0
- ☒ b. 0 0 0 0 1 1 1 0 0 0 1
- ☐ c. 1 0 0 0 1 1 1 0 0 0 1
- ☐ d. **0 0 0 1 1 1 1 0 0 0 1**

Question **5**

Complete

Mark 1.00 out of 1.00

For A= 0 0 1 0 1 0 1 0 0 what will be arithmetic shift right ?

- ☐ a. A= 0 1 1 1 0 1 0 1 0
- ☒ b. A= 0 0 0 1 0 1 0 1 0
- ☐ c. A= 1 1 1 1 0 1 0 1 1
- ☐ d. A= 0 0 0 1 0 1 0 0 0

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