

# 2202-COL216 Minor2

UTKARSH SINGH 2021CS10558

TOTAL POINTS

20 / 30

## QUESTION 1

### 1 Question 1 3 / 3

! + 3 pts *Correct*

👤 + 2 pts Partially correct 2

👤 + 1 pts Partially correct 1

👤 + 0 pts Incorrect

## QUESTION 2

### 2 Question 2 2 / 3

👤 + 0 pts Incorrect

👤 + 1 pts 1 stage mentioned

! + 2 pts *2 stages mentioned*

👤 + 3 pts 3 stages mentioned

👤 - 1 pts Reason not mentioned / more than 3 stages mentioned

## QUESTION 3

### 3 Question 3 2 / 4

👤 + 4 pts Correct

👤 + 0 pts Incorrect Both/Missing/No Explanation

👤 + 2 pts One Correct

! + 2 pts *both partial correct*

👤 + 1 pts without forward partial correct

👤 + 1 pts with forwarding partial correct

## QUESTION 4

### 4 Question 4 3 / 3

! + 3 pts *Correct*

👤 + 1.5 pts Partially Correct 2

👤 + 1 pts Partially Correct 1

👤 + 0 pts Incorrect

## QUESTION 5

### 5 Question 5 3 / 3

! + 1 pts *Latency*

! + 1 pts *Energy*

! + 1 pts *Throughput*

👤 + 1 pts Partially Correct

👤 + 0 pts Incorrect/Not Attempted

## QUESTION 6

### 6 Question 6 1 / 4

! + 0.5 pts *Memory selected*

! + 0.5 pts *reason why selected memory*

👤 + 0.5 pts initial cycle time

👤 + 0.5 pts after split cycle time

👤 + 0.5 pts initial latency

👤 + 0.5 pts final latency

👤 + 0.5 pts initial throughput

👤 + 0.5 pts throughput after split

👤 + 0 pts incorrect or not attempt

## QUESTION 7

### 7 Question 7 1 / 5

! + 0 pts *Nothing Significant is answered.*

👤 + 2.5 pts Correct answer for any one of the trace.

££ + 1 pts Tried trace 1 but wrong answer.

££ + 1 pts Tried trace 2 but wrong answer.

££ + 5 pts All correct.

+ 1 *Point adjustment*

#### QUESTION 8

#### 8 Question 8 5 / 5

££ - 5 pts Not attempted.

! - 0 pts *Correct. 1 mark for operations AND, OR, SUM. 1 marks for mentioning that each of these operations can be done with COMPLEMENT i.e. NAND/NOR, 1 mark for set less than operation with output, 1 mark for MSB/overflow detection, 1 mark for labeling the gates and marking input/output.*

££ - 1 pts Missed one of the operations or missed mentioning complement, or missed MSB/overflow.

££ - 2 pts Missed more operations and details.

££ - 3 pts Mentioned a few operations.

££ - 4 pts Attempted, but hardly wrote anything or wrote wrong things.











