DVD Quiz 10

Duration: 20 Mins Marks: 10

Instructions

- 1. This is a take home quiz, no compulsion to join the meeting, but please ask your doubts in the meeting itself.
- 2. The quiz duration is 20 mins and 10 mins extra is given to upload your scanned PDFs (high quality) on the classroom. Upload answer PDF on classroom.
- 3. Quiz starts at 8:00PM sharp and ends at 8:30PM. Late submission will attract a penalty of 1 mark deduction every minute.
- 4. Meeting link for doubts: https://meet.google.com/yyv-ixnb-ztu
- Q1. Why is Flash memories denser than SRAMs? Why are SRAMs better than Flash in terms of endurance? (1+1 Marks)
- Q2. What technique to save area is allowed to be used only in memory cell layouts & not in digital circuits? Why is it allowed? (1+1 Marks)
- Q3. If devices in a 6T SRAM cell are sized as below in 65nm technology, which 2 figures of merit get degraded for each of them? Explain. (2+2 Marks)

a) PG: 280/65; PU: 120/80; PD: 260/80b) PG: 180/65; PU: 220/65; PD: 260/65

Q4. For a full adder draw the logic circuit for generation of Sum & Carry-out? (1+1 Marks)

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