18EC72

60-4 Milarricols

# Seventh Semester B.E. Degree Examination, Feb./Mar. 2022 VLSI Design

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, thoosing ONE full question from each module.

### Module-L

- With necessary circuit diagram explain the operation of tristate inverter. Also realize a 2 : 1 1 multiplexer using tristate invertor.
  - Implement a D flipflop diling transmission gates and explain its operation with necessary cos Marries) tining diagram.
  - Realize CMOS compound gate for the function Y = N(B+C) + DE.

- Explain the operation of MOSFET with necessary diagrams. Also derive the equation for drain current in linear and saturation region of operation. CLO Mantked
  - Draw the circuit of CMOS inverter and explain its DC transfer characteristics. (06 Marks)
  - Explain the following non-ideal effects channel length modification, mobility degradation. (04 Marks)

### Module-2 <

- Explain CMOS n-well fabrication process with necessary diagrams. (12 Marks).
  - What is scaling. Compute drain current power, current density and power density for constant field and constant voltage scaling (OS District)

- Draw the favour of Y = (A + B + G)D and estimate the area.
  - (08 Marks) Mentioned ifferent types of MOSFET capacitances and explain with necessary diagrams and
  - bequations. 3 606 Minutesh
  - With next diagram, explain tambda based design fules for wires and contacts. cos Minerica). C.

## Module-3

- Develop the RC delay model to compute the delay of the logic circuit and calculate the delay of unit sized inverter driving another unit inverter. (08 Minution)
  - Explain Cascode Voltage Switch Logic (CVSL). Also realize two input AND/NAND using Ы... CVSL. (06 Marks)
  - Explain linear delay model. Compare the logical efforts of the following gates with the help of schematic diagrams: (O654 arks)

### OR.

- Explain: i) pseudo nMOS ii) ganged CMOS with necessary circuit examples. COS Marrison
  - Estimate that and the of a 3-input NAND gate if the output is loaded with h identical gates. Use Elmore delay model. (08 Minister)
  - Explain skewed gates with an example.

# Vlsi Design Sixth Sem Question Paper

Jain Richa & Rai Amrita

# Vlsi Design Sixth Sem Question Paper:

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