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# Question Paper Code: 11300

#### B.E./ B.Tech. DEGREE EXAMINATION, APRIL/ MAY 2011

Sixth Semester

Electronics and Communication Engineering

EC 23 54 - VLSI DESIGN

(Regulation 2008)

Time: Three hours

Maximum: 100 marks

Answer ALL questions

PART A  $-(10 \times 2 = 20 \text{ marks})$ 

- Draw the energy band diagrams of the components that make up the MOS system.
- 2. What is body effect coefficient?
- 3. What is the influence of voltage scaling on power and delay?
- Express T<sub>rue</sub> and T<sub>rue</sub> in terms of C<sub>load</sub>.
- Draw the circuit diagram of a CMOS bistable element and its time domain behavior.
- Write a note on CMOS transmission gate logic.
- Write a note on partition and MUX technique.
- 8. List the design guidelines for  $I_{pop}$  testing.

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