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Question Paper Code : 11300

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

Sixth Semester

Electronics and Communication Engineering

EC 2354 — VLSI DESIGN

(Regulation 2008)

Time : Three hours

Maximum : 100 marks

Answer ALL questions

PART A — (10 × 2 = 20 marks)

1. 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?
4. Express T_{PD} and T_{PLH} in terms of C_{load} .
5. Draw the circuit diagram of a CMOS bistable element and its time domain behavior.
6. Write a note on CMOS transmission gate logic.
7. Write a note on partition and MUX technique.
8. List the design guidelines for I_{DDQ} testing.

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L Reisser



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