#### QUESTION PAPER CODE: 11343

## B.E./B.TECH. DEGREE EXAMINATION,

#### NOVEMBER/DECEMBER 2012.

#### Sixth Semester

### **Electronics and Communication Engineering**

#### EC 2354/EC64—VLSI DESIGN

#### (Regulation 2008)

# (Common to PTEC 2354—VLSI Design for B.E. (Part-Time) Fifth Semester-Electronics and Communication Engineering-Regulation 2009)

#### Time: Three hours

#### Maximum: 100 marks

#### Answer ALL questions.

#### PART A-(10 × 2 = 20 marks)

- Why the tunneling current is higher for NMOS transistors than PMOS transistors with silica gate?
- What is the objective of layout rules?
- Give the effect of supply voltage and temperature variations on the CMOS system performance.
- 4. What are the factors that cause static power dissipation in CMOS circuits?
- State the reasons for the speed advantage of CVSL family.
- Mention the qualities of an ideal sequencing method.
- Distinguish testers and test fixtures.
- 8. What are the stages at which a chip can be tested?
- Write the Verilog module for a 1-bit full adder.
- Give an example for implicit continuous assignment.

#### PART B—(5 $\times$ 16 = 80 marks)

11.(a)(i) Explain the different steps involved in n-well CMOS fabrication process with neat diagrams. (10)

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