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M.Tech II Semester Supplementary Examinations August/September 2018

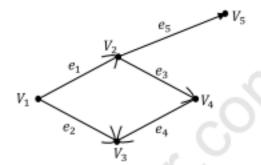
ALGORITHMS FOR VLSI DESIGN AUTOMATION

(Digital Systems and Computer Electronics) (For students admitted in 2013, 2014, 2015 & 2016 only)

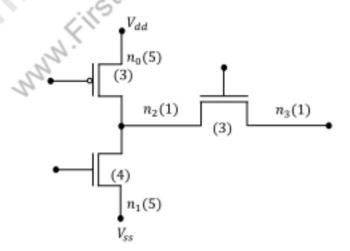
Time: 3 hours Max. Marks: 60

Answer any FIVE questions All questions carry equal marks

1 (a) For the graph shown below, determine the edges using depth - first search algorithm.



- (b) Write the pseudo code for the breadth first search algorithm.
- 2 Differentiate between backtracking and branch & bound algorithm. Also write the pseudo code for both.
- 3 (a) Write the pseudo code for longest path algorithm.
 - (b) Explain, how graph theoretical formulation is framed.
- 4 (a) Write a pseudo code of the event driven simulation function.
 - (b) Illustrate the switch level simulation algorithm for the following circuit.



Contd. in page 2



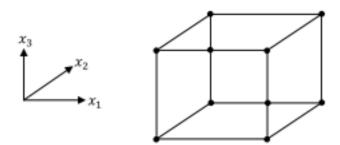


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Write truth table function for the following set Boolean function f in B³ and also evaluate step by step using ROBDD – Building algorithm.



- 6 Explain in detail force directed scheduling.
- 7 With neat diagram, explain physical design cycle of FPGA.
- 8 Explain multiple stage routing.

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