

Code: 9D06206b

M.Tech II Semester Supplementary Examinations August/September 2018

ALGORITHMS FOR VLSI DESIGN AUTOMATION

(Digital Systems and Computer Electronics)

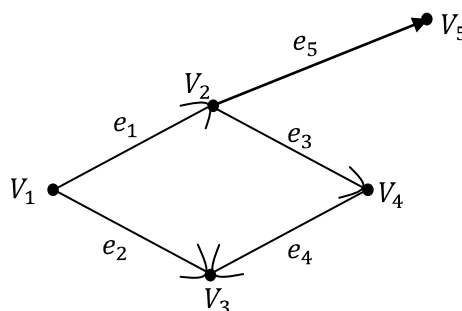
(For students admitted in 2013, 2014, 2015 & 2016 only)

Time: 3 hours

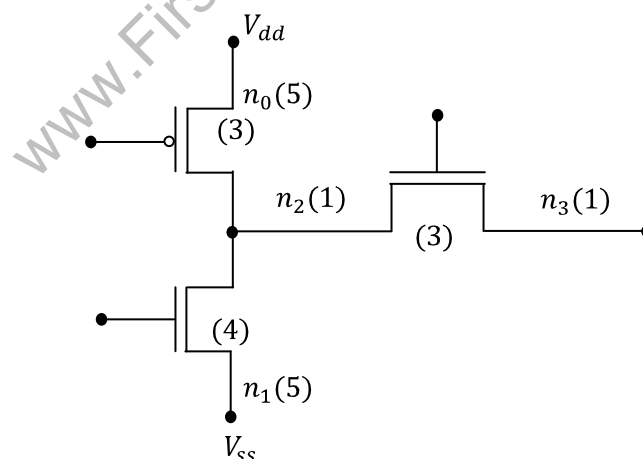
Max. Marks: 60

Answer any FIVE questions
All questions carry equal marks

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



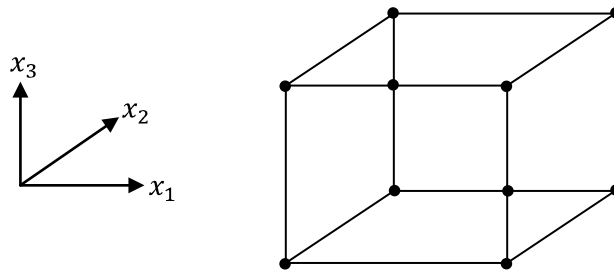
- (b) Write the pseudo code for the breadth – first search algorithm.
- 2 Differentiate between backtracking and branch & bound algorithm. Also write the pseudo code for both.
- 3 (a) Write the pseudo code for longest path algorithm.
(b) Explain, how graph – theoretical formulation is framed.
- 4 (a) 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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- 5 Write truth table function for the following set Boolean function f in B^3 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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