

Code No: 54023

R09

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech II Year II Semester Examinations, May - 2019

STRUCTURED DIGITAL SYSTEM DESIGN

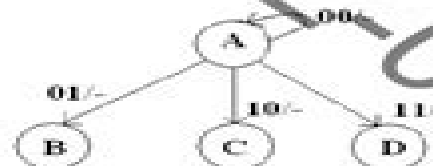
(Electronics and Instrumentation Engineering)

Time: 3 hours

Max. Marks: 75

Answer any five questions
All questions carry equal marks

- 1.a) Reduce the following Boolean expressions:
i) $F = AB + C + AD(B + C) + CD$ ii) $F = AB + CD'B + A'CD'$
b) Mention the operation and explain the design of a Carry Look-ahead adder. [8+7]
- 2.a) Describe the propagation delay through an inverter circuit.
b) Distinguish between open collector and tri state bus system by considering Loading and speeds. [7+8]
- 3.a) Describe the design of D-Latch Flip-flop and analyze its propagation Delay.
b) Write the different types of Clocks and Oscillators used for digital systems. [8+7]
- 4.a) Discuss the steps involved in the State reduction and minimization.
b) Derive next state maps for the state assignments for state diagram shown in figure. [7+8]



- 5.a) Implement a modulo ring counter which is initialized using set and reset operations.
b) Design and implement a 4-bit parallel-in serial-out shift register and explain its operations. [8+7]
- 6.a) Mention about the Timing-Frequency considerations and controlling systems.
b) Write about the functional partition and detailed flow diagram development. [7+8]
7. Explain the state assignment and write the application of the next state decoder and next state decoder maps with an illustration. [15]
- 8.a) Explain the MSI decoder in System Controllers and its applications.
b) Discuss the various Applications of PLA's and FPLA's. [8+7]

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IM Harris



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