

Code No: 54023

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD  
B.Tech II Year II Semester Examinations, July/August - 2021  
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) Design a BCD adder circuit.
- b) Design a 4-bit magnitude comparator circuit using above BCD adder. [7+8]
- 2.a) Explain the terms fan-out, fan-in.
- b) What is the worst case propagation delay of given network shown in figure 1?  $A_{t1} = 10$  nSec,  $A_{t2} = 20$  nSec,  $A_{t3} = 25$  nSec,  $A_{t4} = 10$  nSec. [7+8]



Figure: 1

- 3.a) Differentiate Moore machine from mealy machine.
- b) Convert an edge triggered D - Flip flop to an edge triggered JK flip flop. [7+8]
- 4. Using the state diagram make state assignment for the given state figure 2. [15]

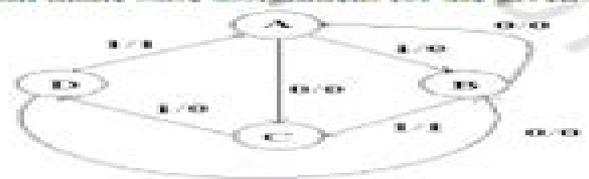


Figure: 2

- 5. Design a module - 6 Gray code counter. Make your code reflective with respect to the 2<sup>nd</sup> MSB. [15]
- 6. Design a controller that controls the drive circuit of stepper motor. Assume required control word format. [15]
- 7.a) Design a binary multiplier using parallel adder and shift register.
- b) Explain the concept of state assignment with examples. [9+6]
- 8. Write a short note on:
  - a) FPLA architecture.
  - b) Configurable memories. [7+8]

# Digital System Design Solved Question Papers

**Raffaella Di Napoli**



**Digital System Design Solved Question Papers:**

## **Digital System Design Solved Question Papers** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Digital System Design Solved Question Papers**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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