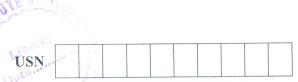
	1200		-	
1				71
- 1		н.		14



## Seventh Semester B.E. Degree Examination, July/August 2021

## **Embedded System Design**

Time: 3 hrs.

Max. Marks:100

## Note: Answer any FIVE full questions.

1	a.	What is an embedded system and design metric?	(04 Marks)
	b.	Explain with diagram how the Top-Down design process improves the productivi	ity.
			(08 Marks)
	C.	Describe life cycle of Embedded System with a neat diagram.	(08 Marks)
2	a.	Briefly explain high level block diagram of Finite State Machine.	(08 Marks)
	b.	Compare RISC and CISC registers.	(04 Marks)
	c.	Explain RTN model for a Microprocessor Data path and Memory Interface.	(08 Marks)
3		Explain Swapping and multiprogramming.	(04 Marks)
3	a.	Explain memory chip Internal Architecture.	(08 Marks)
	b.	Write the Timing Diagram for the DRAM Read and write cycle and explain.	(08 Marks)
	C.	Write the Thining Diagram for the Divitiv Read and write eyers and expenses	
4	721	Draw and explain waterfall model and spiral model.	(10 Marks)
4	a.	Write and explain functional partition of the counter system.	(06 Marks)
	b.		(04 Marks)
	C.	Explain coupling and cohesion.	
5		Explain the single and multiple processes.	(06 Marks)
3	a.	Briefly explain threads.	(04 Marks)
	b.	Briefly explain tificates.  Briefly explain virtual and high level operating system architecture.	(10 Marks)
	C.	Briefly explain virtual and high level operating system are more than	
6		Explain in detail General Purpose Registers with four different contexts ad	overlapping
6	a.	contexts.	(08 Marks)
	1.	c ' the agreed many keyboard input	(06 Marks)
	b.	C-4-1-	(06 Marks)
	C.	What is stack! Explain types of stack.	
_		D' and and automana	(06 Marks)
7	a.	A La Day Madel with diagram	(06 Marks)
	b.	Explain Queue Based Fower Management Moder with diagram.	(08 Marks)
	C.	Explain Bio-O notation and Big-O Arthimatic.	,
-		D il ading with next figure and equation	(08 Marks)
8	a.		(08 Marks)
	b.		(04 Marks)
	C.	Write a note on Tricks of the Trade.	(01111111111111111111111111111111111111

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.