10MT761

Seventh Semester B.E. Degree Examination, July/August 2022 **Real Time Systems**

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

PART - A

		Define RTS. Explain the classification of RTS.	(10 Marks)
1	a.	Define RTS. Explain the classification of RTS. Explain the concepts of time constraints and classification of programs.	(10 Marks)
	h	Explain the concents of time constraints and classification of programs.	(10 1120111)

2	a.	Explain the operation of sequence control with neat diagram. Explain the operation of centralized computer control with neat diagram.	(10 Marks) (10 Marks)
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2	0	Explain the working operation of general purpose computer with neat diagram. (10 Marks Explain the architecture of open system interconnected network with neat diagram. (10 Marks)	3)
3	a.	Explain the working operation and the second network with neat diagram.	
	b.	Explain the architecture of open system interconnected network with near than 100 Marks	s)

		Explain the operation of syntax layout and readability in detail.	(10 Marks)
4		English the operation of syntax lavout and readability in detail.	(
4	a.	Explain the operation of syntax by our in DTS	(10 Marks)

Explain the operation of different types of data types in RTS.

- Explain the operation of real-time multitasking operating system with neat block diagram.
 - Explain the concepts of scheduling strategies.

(05 Marks)

Explain the concepts of priority structures.

(05 Marks)

Explain the operation of memory management.

(06 Marks) (06 Marks)

Explain the concepts of data transfer.

(08 Marks)

Explain the operation of scheduler and real-time clock interrupt.

(06 Marks)

Explain the concepts of specification documents. Explain the operation of preliminary design in detail.

(10 Marks)

Explain the operation of single program approach.

(04 Marks)

Explain the working operation of ward and Mellor method in detail.

(10 Marks)

b. Explain the operation of Hately and Pirbhai method in detail.

(10 Marks)

Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8=50, will be treated as malpractice. 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 e^{σ} 47+8 = 50 will h^{ρ}