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Write short notes on:

Time: 3 hrs.

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

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

1	а	Explain the classification of programming in Real time Systems.	(10 Marks)
	cc.	Explain the classification of the control of the co	
	h	Explain briefly sequence control with neat diagram.	(10 Marks)

OR

2	a.	Explain distributed system with a neat diagram and mention its advantages.	(10 Marks)
	b.	With an example, explain the supervisory control system.	(10 Marks)

Module-2

3	a	With a neat diagram, explain the general purpose digital computer.	(10 Marks)
	h	Discuss the reason for development of specialized processor and also explain	MIMD and
		SIMD with neat block diagrams.	(10 Marks)

OR

4	a.	Analyze the operation of different LAN topologies with neat diagrams.	(10 Marks)
	h	With a neat block diagrams and timing diagram, explain digital input interface.	(10 Marks)

Module-3

a.	Explain the following terms:			
	i) Security ii) Readability	iii) Portability iv) Flexibility	v) Simplicity.	(10 Marks)
	Explain low level facilities.			(04 Marks)
		ation of variables and constants.		(06 Marks)

OR

	i) Control structure	s ii) Exception handling.	(10) Marks)
b	Discuss about modular	ity used in real time languages.	(04	4 Marks)
		xplain interrupt masking.	(06	Marks)
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Module-4

7	a.	With a neat diagram, explain memory management in Kear Time System.	(10 Marks)
	b	With a neat diagram, explain task state diagram.	(10 Marks)

OR

3	a.	Explain three broad level of priority with neat diagram.	(10 Marks)
	b.	With a neat diagram, explain multi user and multitasking operating system.	(10 Marks)

Module-5

9	а	Explain software design of RTS using software module.	(10 Marks)
	b.	Explain the outline of abstract modeling approach of ward and Mellor.	(10 Marks)

OR

10	а	Explain foreground and background system with a flow chart.	(10 Marks)
10			(10 Maulza)
	b	With a neat diagram, explain planning phase and development phase.	(10 Marks)
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