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.

M.Tech. Degree Examination, December 2011 Real Time Operating System

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

1	a. b. c.	With diagram, explain the internal and external memory fragmentation. Write any six key features that an RTOS should have.	(08 Marks) (06 Marks) (06 Marks) (10 Marks)
2	a. b.	Explain the RMLUB, with suitable examples. Describe the two algorithms for determination of N and S feasibility.	(10 Marks)
3	a. b.	Explain the worst-case execution time of a service. Explain the following: i) Shared memory	(10 Marks) (10 Marks)
		ii) Flash filesystems	(10 Mains)
4	a. b. c.	a *	(08 Marks) (08 Marks) (04 Marks)
5	a. b.	the state of the s	(10 Marks) helpful for (10 Marks)
6	a. b. c.	Explain the power—on self test and memory testing.	(10 Marks) (06 Marks) (04 Marks)
7	a b c	. Give some basic methods for optimizing code segments.	(10 Marks) (04 Marks) (06 Marks)
8	-	Compare reliability and availability. Also discuss reliability with an example. Explain the basic concepts of real time services with any one example.	(10 Marks) (10 Marks)

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