

R09

Code No: D8405

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.TECH II - SEMESTER EXAMINATIONS, APRIL/MAY 2012
CASE STUDIES IN REAL TIME OPERATING SYSTEMS
(REAL TIME SYSTEMS)**

Time: 3hours

Max. Marks: 60

**Answer any five questions
All questions carry equal marks**

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1. a) Differentiate between a process and a thread.
b) Explain the process of converting the logical address in to physical address.
2. a) Explain about kernel synchronization using spinlocks.
b) Write a short note on .DLL Executive.
3. a) Explain the role of a device driver with a neat diagram.
b) Discuss the functions of a cache manager.
4. a) What are the services provided by network operating system?
b) Explain the functionalities of a Shell and User interface.
5. Explain briefly about various multimedia technologies.
6. a) What is the need of a make file? Give the structure of it.
b) Explain the characteristics of U C Linux.
7. Explain about embedded web servers and resources.
8. With a sample code explain how sockets are used for networking.
