**R09** 

[12]

Code No: C5510

mechanisms.

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M.Tech I Semester Examinations March/April-2011 ADVANCED OPERATING SYSTEMS (EMBEDDED SYSTEMS)

**Time: 3hours** Max.Marks:60

Answer any five questions

Answer any five questions All questions carry equal marks		
1. a) b)	Explain about Computer Instruction Cycle with Interrupt. Explain various I/O Communication Techniques with examples.	[12]
2.	Explain the following filters: a) wc b) egrep c) fgrep d) tr & dd.	[12]
3. a) b)	Write an algorithm for creating a file. How to create a new process in UNIX? Write an algorithm for fork ( call.	-
4.	Explain the following: a) Message queues b) Semaphores c) Shared memory.	[12]
5. a) b)	Explain about Multiprocessor Time sharing systems.  Describe about Network Operating System.	[12]
6.	Explain the working of Remote Procedure Call using a stack.	[12]
7.	What is Mutual Exclusion? Explain Token ring algorithm to achieve Exclusion.	Mutual [12]
8.	What is an Atomic Transaction? Explain various Concurrency	Control