R09

Code No: C5510

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M.TECH I SEMESTER EXAMINATIONS, APRIL/MAY 2012 ADVANCED OPERATING SYSTEMS (EMBEDDED SYSTEMS)

Time: 3hours Max.Marks:60

Answer any five questions All questions carry equal marks

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- 1.a) Explain the objectives of an Operating System.
 - b) What is meant by Memory Hierarchy?
- 2.a) What is Filter? Mention any five filters in UNIX and write about any two.
 - b) Differentiate-Shell and Kernel. Mention and brief the various features of Shell Programming.
- 3.a) What is a System call? Give its classification. Write about the system calls for Process creation & termination.
 - b) Compare and contrast IPC mechanisms FIFOs & Message Queues.
- 4. With a neat sketch write about Remote procedure call (RPC) mechanism.
- 5.a) Elaborate the Lamport's Logical Clock Concept giving its merits and demerits.
 - b) Write about Bully algorithm.
- 6. Compare and contrast the various algorithms for distributed deadlock detection.
- 7. Mention and brief the various design issues of Distributed Systems.
- 8. Write short notes:
 - a) ATM Networks
 - b) Atomic Transactions.
