

R06

Code no: MC307

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

MCA III Semester Examinations, January-February 2012

UNIX NETWORK PROGRAMMING

Time: 3hours

Max.Marks:60

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

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1. a) Explain how security can be achieved by assigning various permissions to a file with an example.
b) What are the features of UNIX Operating System?
2. a) What are the main features of Shell Programming Language? Explain briefly.
b) Explain the different type of arithmetic operators used in shell programming with an example.
3. Explain `fcntl()` and `fstat()` functions with a sample example programs.
4. Write short notes on the following functions:
a) `abort()` b) `pause()` c) `sleep()` d) `system()`
5. What are pipes? Explain their limitations. Explain how pipes are created and used in IPC with an examples.
6. What are the advantages of message queues? Explain the APIs for system V message queues.
7. a) Explain, How to place "Data in shared memory".
b) What is the use of destroying a shared memory segment? Explain the process of "destroying a shared memory segment".
8. What is socket? Explain various socket system calls using for TCP protocol.
