

**Code No: 5405AN****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****M. Tech II Semester Examinations, October/November – 2020****NETWORK PROGRAMMING****(Computer Science)****Time: 2 Hours****Max. Marks: 75****Answer any five questions  
All questions carry equal marks**

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1. Briefly explain about (a) Text processing utilities and (b) Backup utilities available in Linux. [7+8]
2. Explain about different system calls used to know the file status information and file ownership information. [15]
- 3.a) What are reliable and unreliable signals? Explain with suitable examples.  
b) Differentiate between kill() and raise() functions. [8+7]
- 4.a) Explain the socket system calls for Connectionless-Communication.  
b) Write a client server program using UNIX domain sockets. [8+7]
5. What is Remote Method Invocation (RMI) in Java? Write a program to demonstrate RMI in Java. [15]
6. Write short notes on (a) Command substitution (b) Different control structures available in shell scripts. [7+8]
- 7.a) Write a C-program to create a process.  
b) Explain about zombie and orphan processes. [7+8]
8. What is Inter Process Communication (IPC)? Write a C-program to demonstrate IPC using pipes. [15]

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