R17

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M. Tech II Semester Examinations, June/July - 2018
NETWORK PROGRAMMING
(Computer Science and Engineering)

Time: 3hrs   Max.Marks:75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

5 × 5 Marks = 25

1.a)	Write any five file handling commands of Linux.	[5]
b)	Differentiate Directory file and FIFO file.	[5]
c)	List and explain various IPC methods.	[5]
d)	Brief about Unix domain address formats.	[5]
e)	Explain the structure of UDP datagram.	[5]

PART - B

5 × 10 Marks = 50

2.	List and explain process utilities of Linux.	[10]
	OR	
3.	Give the list of shell meta characters and explain each with example.	[10]
4.	What are attributes assigned to the process on execution of fork system call? Give the description of each attribute.	[10]
	OR	
5.	Explain about device file API.	[10]
6.	Write a program for reader and writer problem using named pipes.	[10]
	OR	
7.	What is process synchronization? How it can be achieved by semaphores.	[10]
8.	Explain the sequence of socket system calls used in connection oriented protocol.	[10]
	OR	
9.	Explain the prototypes of setsockopt(), getsockopt() functions.	[10]
10.	Explain the procedure for implementing RMI at server side.	[10]
	OR	
11.	Explain the procedure for implementing RMI at clients side.	[10]

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