Code No: 5405AN JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M. Tech II Semester Examinations, July/August – 2021 NETWORK PROGRAMMING (Computer Science)

Time: 3 hours

Max. Marks: 75

Answer any five questions All questions carry equal marks

1.	Explain any two commands with syntax examples to explain the following a) Disk utilities b) text processing utilities c) Networking utilities	[5+5+5]
2.a)	Discuss the basics of shell programming. Write a shell script using while loop to print 10 numbers.	
b)	Write a short note on record locking.	[9+6]
3.a)	How will you terminate the process? Write down the different options avail termination.	ilable for
b)	Describe in detail about the hard links and soft links with examples.	[7+8]
4.a)	Write a C program that takes a filename as command-line input and reports the for information on the file:i) File type ii) Number of hard links.	llowing
b)	Explain the operation of FIFO with an example.	[8+7]
5.a) b)	Explain in detail about the structure of message queues. What is a semaphore of xplain the Linux APIs for semaphores.	[7+8]
6.	Explain the need of shared memory in Interprocess communication.	[15]
7.	Explain the purpose of the following socket API in Unix in detail (with syntax): a) socket () b) bind () c) recvfrom () d) sendto ()	[15]
8.	Consider a simple Client/Server example (Simple echo Client/Server applica discuss the following boundary condition for this example: What happens if the shost is shutdown by an operator while a server process is running on that host?	

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