R18

Code No: 156CA

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year II Semester Examinations, August - 2022 NETWORK PROGRAMMING

(Common to CSE, IT)

Time: 3 Hours

Max. Marks: 75

Answer any five questions All questions carry equal marks

1.a) b)	Write the syntax for readn() and writen() functions and explain its usage. List and explain various byte manipulation functions with clear syntax.	[6+9]
2.	Explain the following elementary socket functions with neat syntax and exama) socket() b) bind() c) connect() d) listen() e) accept()	mple: [15]
3.	Write down the programs for TCP echo server and TCP echo client. Explain that echos data on a socket and the function for client processing loop.	the function [15]
4.a) b)	Describe signal-driven I/O model and Asynchronous I/O model with neat di Give the syntax of select() function and describe its basic functionality.	agrams. [9+6]
5.	List and explain various IPv4 and IPv6 socket options.	[15]
6.a)	Give a detailed syntax and explanation of recvmsg() and sendmsg() fu summarize various I/O flags of it.	inctions and
b)	Give the basic functionality of fentl() function.	[9+6]
7.	Explain the following functions with an illustrative example code: a) gethostbyname() b) gethostbyaddr()	[8+7]
8.	Give an overview of the traceroute program to determine IP datagrams path host to other destination with an illustrative program and flowchart.	from our [15]

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