III B.Tech - II Semester – Regular Examinations – April 2016

NETWORK PROGRAMMING (INFORMATION TECHNOLOGY)

Duration: 3 hours	Max. Marks: 70
Answer any FIVE questions.	All questions carry equal marks
1)	
a) Distinguish between UD	P and TCP. 6 M
b) Briefly explain TCP com	nection management. 8 M
2)	
a) What is a Socket? Describe the address structure of IPv4	
Socket and Generic Sock	tet? 7 M
	etween little-endian byte order and Why these are important in
Network Programming?	7 M
3) Explain "crashing and rebooting of server host" scenario in	
TCP client/server communi	cation. 14 M
4) Write short notes on the fol	lowing
a) shutdown function	6 M
b) getsockopt function	4 M
c) setsockopt function	4 M
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5) Discuss how a connected UDP socket can also be used to determine the outgoing interface. 14 M
a) What is "hostent"? Write its structure and the information it contains?
b) Distinguish between "gethostbyname" function and "uname" function. 7 M
7) a) Distinguish between pipe and FIFO. 4 M
b) Write a program using pipe() system call to send data from parent process to child process. 10 M
a) Write short notes on the followingi) Semaphores5 M
ii) Remote Procedure Calls 5 M
b) Distinguish between Message queues and Shared memory. 4 M