TE/complsem-Il/cBcqs/R-19/c-scheme/cN/sH-2024

Duration: 3hrs [Max Marks: 80]

N	IR.	(1) Question No 1 is Compulsory.	P-10064609
1,	т.р	(2) Attempt any three questions out of the remaining five.	
		(3) All questions carry equal marks.	
		(4) Assume suitable data, if required and state it clearly.	
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1		Attempt any FOUR	[20]
	A	Explain with examples the classification of IPv4 addresses.	5/
	B	Create 7-bit hamming code for the message bit 1110 with even parity.	5
	C	List the advantages of fiber optics as a communication Medium.	5
	D	What are sockets and its different types?	5
	E	What is the use of DNS in networking?	5
			T 5
2		Attempt the following	
	A	For the class C network 193.160.10.0 having subnet mask 255.255.255.192	10,
		finds the number of subnet created and Number of host per subnet.	Otto
	B	What is network traffic congestion? How congestion is controlled?	10
3		Attempt the following	40
	A	Explain different framing methods? What is the advantage of variable length frame of	over 10
	D	fixed layer frame?	10
	В	How collision is controlled at MAC layer using CSMA/CD?	10
4		Attempt the following	
	A	What is use of ARP protocol? And also discuss header structure for ARP pack	ket. 10
	B	Which algorithms are useful for dynamic routing?	10
5		Attempt the following	
	A	Explain the process of connection management at TCP layer.	10
	B	With the help TCP segment header structure, discuss importance of sequencing	ng. 10
6		Attempt the following	
	A	Compare FTP and Telnet.	10
	B	What are the benefits of Selective repeat ARQ protocol over Go-back N ARQ	2 10
		protocol?	
