C. M - SYCS 3/4/24 REQUIENT



	ATION: - 2½ hrs 84203424	MARK	S:- 75
Note:	- (1) All questions are compulsory.		
	(2) Figures to the right indicate full marks (3) Answer to each question must being on a new page	18.4	
Q.1)	Attempt any 4 out of 6		20M
a)	Describe simplex Mode, Half Duplex and Full Duplex Data	CO1-U =	2011
	communication flow		
b)	Describe the layers of TCP/IP model	CO1-R	
c)	Define attenuation, Distortion and Noise	CO1-R	
d)	Explain Analog to Analog conversion process	COI-U	
e)	Describe multiplexing and demultiplexing process	CO1-U	
f)	Explain circuit switching and packet switching	CO1-R	
Q.2)	Attempt any 4 out of 6	COI-R	2034
a)		CO2 11	20M
b)	Describe single bit error & Burst bit error in detail with example	CO2-U	
c)	Explain error correction using FEC and ARQ	CO2-U	- 3
τ,	Write the steps to compute CRC code. Calculate CRC for the	CO2-U	
6	frame 110101001 and the generator polynomial = $x^4 + x + 1$		
.3\	and write the transmitted frame.		
d)	The original data:	CO2-U	
	110111,1111111,01010011,1000001,0000000,100100		
	0.0010101,1101011. Locate it using simple parity check and	97	
	Two-dimensional parity check		
e).	Explain the protocols in data link layer	CO2-R	
f)	Write a short note on the classes of IPv4 address	CO2-R	11
Q.3)	Attempt any 4 out of 6	2.5	20M
a)	Explain HTTP	CO3-R	
b)	Describe open shortest path first	CO3-R	e N
c)	Explain FTP	CO3-R	
d)	Explain SSH	CO3-R	
e)	Describe domain name system	CO3- <u>U</u>	
f)	Explain FIFO queuing and priority queuing	CO3-R	
Q.4)	Attempt any 5 out of 6		15M
a)	Explain LAN, MAN, WAN in chart	CO1-U	
b)	Describe pulse code modulation	CO1-R	
c)	Define Radio waves, Microwaves, Infrared	CO1-R	
d)	Write the steps to compute CRC code. Calculate CRC for the	CO2-U	ê
	frame 1010000 and the generator polynomial = $x^3 + 1$ and	54 50 H	
	write the transmitted frame		
e)	Describe RIP	CO3-R	
f)	Explain WWW	CO3-R	
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