	4	29/3/24 ATUT	D
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		ATION: - 21/2 hrs SULT - 733061123 - COMPTER (03) e: - (1) All questions are compulsory. Metwo causes) MARKS:- 75
	Note	(2) All questions are compulsory. Metho causes	
		(3) Figures to the right indicates full marks	
	Q.1	Attempt any three of the following	15M
	a)	Explain star and Bus topology	CO1-(U)
1.2	b)	Write short note on MAN, WAN and LAN	CO1-(U)
	c)	Difference between TCP and OSI layer	CO1-(R)
	d)	Write short note on Layers of OSI model	CO1-(R)
	e)	Explain the hardware device of network	CO1-(R)
	f)	Describe the communication done between the sender and receiver	CO1-(U)
	0.2	Attempt Any three of the following	1514
	a)	Describe analog and digital signal	15M
	u) b)	Explain transmission impairments	CO2 (R)
	c)	Write the steps to compute CRC code The original message is	CO2 (R)
	0)	110101011 and the generator polynomial $=x^4 + xwhite the$	002 AD
		transmitted frame	CO2 (U)
	d)	The original Data 0010101, 0101010, 1111101, check and block	CO2 (II)
		parity check	CO2 (U)
	e)	Explain the position and function of data link layer	CO2 (R)
	f)	Write a short note on AQR technique	CO2 (U)
	Q.3	Attempt Any Three of the following	15M
	a)	Define IGMP, ICMP, IP, ARP and RARP	CO3 (R)
	b)	Describe the format of IPv4 header	CO3 (R)
	c)	Explain IP addressing classful and classless	CO3 (R)
	d)	Explain fragmentation	CO3 (R)
	e)	Given Address: 192.168.109.50/27 and 192.168.10.6/15. Find the	CO3 (U)
		first Address, last address and Total Number of Host address	
	f)	How to find subnet mask, first address, last address and network,	
		host bits. Write the steps with respect to formulas	CO3 (U)
	Q.4	Attempt Any Three of the following	15M
	a)	Where is network and transport layer located? Explain the duties	
		of transport layer	CO4 (R)
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b)	Explain multiplexing and the demultiplexing	CO4 (R)	
c)	Define simple, stop and wait, Go back N	CO4 (R)	
d)	Describe user datagram format	CO4 (R)	
e)	Explain selective repeat and by directional protocol	CO4 (R)	
)	Write a short note on UDP	CO4 (R)	
2.5	Attempt Any Three of the following		15M
a)	Write a short note on uniform resource locator	CO5 (R)	1.10
b)	Explain DNS and it's working	CO5 (R)	
c)	Explain application layer paradigms	CO5 (R)	
d)	Describe message access agent	CO5 (R)	
e)	Define name space, flate name space, And hierarchical name space	CO5 (R)	
f)	Draw neat labelled diagram of email architecture and explain in details	CO5 (R)	

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