Total No.	of Questions : 5]	CIEI A TE NI
		SEAT No. :
P6982	[5865]	[Total No. of Pages: 3
	F.Y. M.C.A.	anagamant)
		TOTAL OF STATE OF STA
	IT: 15 - NETWORK T	ECHNOLOGIES LIBRARY Semester - I)
	(2020 Pattern) (Semester - 1)
Time: 21/2	Hours]	[Max. Marks 150
	ns to the candidates:	
	All questions are compulsory.	
	All questions carry equal marks. Draw near diagrams wherever necessar	
3) 1	braw hear anagrams wherever necessar	, C
01) W.	40 (1-2)	
	te the correct option.	[10]
a)		ection oriented protocol.
	i) VDP	ii) IP
1 \	iii) TCP	iv) SCTP
b)	Transmission data rate is decided	
	i) Network layer	ii) Physical layer
	iii) Data link layer	iv) Transport layer
c)	Trailer is added at layer	
	i) Network	Transport
•	iii) Datalink	iv) Session
d)	In modulo-2 arithmetic, we use the	eoperation for both addition
	and subtraction.	
	i) X-OR	ii) OR
	iii) AND	iv) None of the mentioned
e)	We add 'r' redundent bits to each	
	The resulting 'n' - bit blocks are	
	i) Data words	ii) Block words
	iii) Code words	iv) None of the mentioned
f)	A simple parity-check code can o	
	i) An even number of	ii) two
	iii) No-errors	iv) An odd number of
g)	In modulo-11 arithmetic we use o	nly the integers in the range,
	inclusive.	
	i) 1-10	ii) I-11
4.	iii) 0-10	iv) None of the mentioned
h)	The Hamming distance between of	
	i) 1	ii) o'n'
	iii) 0	iv) None of the mentioned
		P.T.O.



i)	Wh	ich of the following IP addres	s clas	s 15 multicast. Class-B
	i)	Class-A	aii)	Class-B
	iii)	Class-C	iv)	Class-D
j)		ich of the following is not app	licab	
	i)	Error reporting	ii)	Handle addressing conventions
	iii)	Datagram format	iv)	Packet handling conventions
k)	Wh	ich of the following protocol	uses 1	ooth TCP and UDP.
	i)	FTP	ii)	SMTP
	iii)	Telnet	iv)	DNS
1)	The	Internet addresses ar	e 32 l	pits in length.
	i)	IPv	ii)	IPv ₂
	iii)_	IPv_3	iv)	IPv ₄
m)	The	PV addresses are represent	ted us	
	i)	Binary and dotted decimal no		
	ii)	Binary notation		
	iii)	Dotted decimal notation	_(
	iv)	Hexa decimal notation	2	
n)	DN	S database contains		
	i)	Name server records	ii) 🤇	Hostname-to-address records
	iii)	Host name aliases	iv)	All of the mentioned
o)	Whi	ich of the following protocol is	sused	
	i)	SMTP	ii)	POP ₃
	iii)	SNMP	iv)	FTP
p)	FTP	uses Paralled TCP co	onnec	tions to transfer a file.
	i)	1	ii)	2
	iii) 🔹	3	iv)	4
q)	Orig	ginal Message before transmis	sion i	s called as .
	i)	Cipher text	ii)	Plain text
	iii)	Secret-text	iv)	None of the mentioned
r)	Whi	ch method is used to establis	sh a c	connection between server and
	clien	it.		Q7 , S
	i)	accept ()	ii)	open ()
	iii)	getLocalHost	iv)	OpenConnection ()
s)		do you implement reliable tra	ınsmi	ssion in UDP protocol?
	i)	by sequencing packages	ii)	By using middleware
	iii)	(i) & (ii) both	iv)	None of the mentioned
t)	How	to get list of IP address that a	re ass	
	i)	getInetAddresses		get InterfaceAddresses
	iii)	(i) & (ii) both	1 3	None of the mentioned

		3.
Q2) a)	Figure 13 1 10010101 Willi even parity Fi	nd N
	error in the received code.	T4
b)	Generate CRC code for data word 1010001011 using the divisor 1	ر. 1110
		[5
	OR	_
a)		river
1.	number of data bets, $n=5$.	T.S
b)	The state of the s	in th
	code word if the divisor is 10101.	[5
Q3) a)	For given class P. ID address 170, 160, 14, 4	-
£0) (1)	For given class B IP address 172. 168. 14. 1 and subnet mask 253 140. 124 calculate	. 255
	i) Total number of subnet.	[5
	ii) Total no. of host IPs/subnet.	
	iii) First and last valid IP for each subnet.	
b)	Explain IPV ₆ address schemes in details.	
,	OR	[5]
a)	What is the default mask for following IP host addresses (solve	
	proper procedure).	
	i) 98. 0. 46. 200	[5]
	ii) 205. 35-66. 14	
	iii) 172. 14. 16. 08	
b)	Compare IPv ₄ and IPv.	[5]
04) a)		[5]
(24) a)	What is HTTP? Explain HTTP transaction in detail.	[5]
b)	What is email? Explain different email protocols.	[5]
a)	Explain RIP in detail.	
b)	What is DHCD2 Explain DLICE	³ [5]
	What is DHCP? Explain DHCP scope resolution protocol in detail.	[5]
25) a)	Define threat and attacks. Explain and	
b)	Define threat and attacks. Explain active attack. Write a simple socket program to find a tipe of the socket program to f	[4]
	Write a simple socket program to find out IP address of host. OR	[6]
a)	Write a PCP Server-Socket program which	
,	Write a PCP Server-Socket program which accept request from clier capitalize string and sending the response in the form of capitalists and sending the response in the form of capitalists.	it to
	sentence block to client.	
b)	Describe TCP/IP protocol surf in detail.	[6]
	p-socot sair in detail.	[4]
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