Total No. of Questions : 5]					3	SEAT No.:		
P-3343					_	[Total No	o. of Pages : 5	
			MC	[6027]-1 4. (Mana	.5 	ont)		
			IT15: NETV		_	· ·		
	(2020 Pattern) (Semester - I)							
		Hou				[Max	c. Marks : 50	
Instr			the candidates :	1				
	 1) 2) 	-	questions are compu questions carry equa	•		9		
	<i>3</i>)		w neat diagrams wh		sarv.	, See .		
			6.		,			
01)	Mul	tinle	Choice Questions:			95	[10]	
Q1)			-		200	accompanies tions su		
	i)	betv	veen a PC and a pe		4	communications su	ich as mose	
		a)	Radio waves		\mathfrak{b}	Microwaves		
		c)	Infrared waves	RON	d)	Not in the list		
	ii)	A _	topology	is a combina	ation	of several different	topologies	
		a)	Tree	7	b)	Hybrid	S.	
		c)	Duplex	6.1	d)	Tertiary		
	iii)	Mic	rowaves are	·			30	
		a)	omnidirectional		b)	unidirectional		
		c)	bidirectional		d)	Not in the list	S .	
	iv)	An	IP packet is called	a		- 5		
		a)	user datagram		b)	segment		
		c)	datagram		d)	none of the mention	oned	
	v)	E-m	ail is a service han	dled by the _	_	layer.		
		a)	session		b)	presentation		
		c)	application		d) %	data link		
					3			
				\)	^		DTO	

V1)	In a laye		4 on	machine A communicates with
	a)	1	b)	2
	c)	3	d)	4
vii)		increases the l	ikelil	nood of detecting burst enors.
	a)	Simple parity check	b)	Two-dimensional parity check
	c)	CRC	d)	Check-sum
viii)	ARG	Q stands for		
	a)	Automatic repeat quantization	1	9
	b)	Automatic repeat request		
	c)	Automatic retransmission rec	luest	
	d)%	Acknowledge repeat request		8
ix)	J /	· · · · · · · · · · · · · · · · · · ·	livisc	or 1001, what checksum to be
•		ended?	Y	0.
	a)	111111000	b)	10000
	c)	011	(d)	1111111011
x)		is default subnet m	ask f	or Class C address
	a)	255.0.255.255	b)	255.255.255.0
	c)	0.255.255.255	d)	None of the Mentioned
xi)	A R	IP table entry consists of		<u> </u>
	a)	destination network address		
	b)	the hop count to that destinat	ion	2,0
	c)	IP address of the next router		
	d)	All of the mentioned		
xii)		abnet id is 255.255.255.0 for reserved for subnetwork?	class	B address, then how many bits
	a)	2 bits	b)	8 bits
	c)	6 bits	d)	0 bit
			3	
027]-15	5	2	×,	

xiii)	In 1	ink state routing, each router	rese	eives information directly from			
	a)	Every router on the network					
	b)	Every router less than two units away					
	c)	A table stored on the network hosts					
	d)	Its nearest neighbors only					
xiv)	Ele	ctronic mail uses which Applica	ation	layer protocol?			
	a)	SMTP	b)	HTTP			
	c)	ETP	d)	SIP			
xv)	FTI	is built on archite	ectur	e			
	a)	Client-server	b)	P2P			
	c) 9	Data centric	d)	Service oriented			
xvi)	Cae	esar cipher is an example of					
	a)	Asymmetric key cryptograph	ý				
	b)	Symmetric key cryptography	3				
	c)	Both Asymmetric and Symm	etric	key cryptography			
	d)	None of the mentioned		86			
xvii)	RS	A algorithm is an example of					
	a)	Public key encryption		key cryptography			
	b)	Symmetric key cryptography					
	c)	Both Asymmetric and Symm	etric	key cryptography			
	d)	None of the mentioned					
xviii) Which of the following is not Passive attacks?							
	a)	Modification of message	b)	Obtaining information			
	c)	Release of message content	d)	Eavesdropping			
xix)	In s	tatement "int count\=send(socl	kid,n	nsg,msgLen,flags);", count is			
	a)	bits transmitted	b)	bytes transmitted			
	c)	data transmitted	d)	None of the mentioned			
			O.V				

	xx)	Server announces willingness to accept the connection using command	
		a) accept() b) read()	
		c) write() d) listen()	
<i>Q2</i>)	a)	The received Hamming code word is 101101010. Using odd parity loc and correct the bit in error.	ate
	b)	Find the transmitted frame, if a series of 8-bit message blocks - 111001	10
		is to be transmitted across a data link using CRC for error detection	on.
		The generator polynomial 11001 is to be used.	
			10]
		OR OR	
	a)	Generate CRC code for the data word 1010001011 using the divi-	sor
		11101.	
	b) 🔊	Detect and correct the single error in the received Hamming code wo	ord
		1011001011 using even parity.	
			10]
<i>Q3</i>)	a)	Explain IP address format for Class A, Class B, Class C, Class D	C
		Determine the network address for following IP Addresses:	?
		i) 83 .41.57. 10	5
		ii) 194.38. 14. 13 (**)	
		iii) 143 .62. 11. 98	
	b)		
	b)	Explain IPv6 Packet Format in detail.	
			10]
		OR	
	a)	Find the maximum number of hosts available on a class-B address was a subnet mask of 255.255.255.192.	ith
	b)	Find the subnet ID for the IP address 202.127.19.94 with a subnet ma of 255.255.255.248.	ask
		90.	107
			10]

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Q 4)	a)	Explain SMTP protocol in detail.	
	b)	Explain OSPF routing protocol in detail.	
			[10]
		SOR	
	a)	Explain DHCP scope resolution protocol in detail.	
	b)	Compare POP3 and IMAP email protocols.	
		ERO John Str.	[10]
Q 5)	a)	Explain socket programming in detail.	
	b)	What are attacks? Write types of attacks in detail.	
			[10]
		OR OR	
	a)	Write the client and server program for implementing the broadcast the local network.	ting in
	b)	Explain OSI model in brief.	
	- /		[10]
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