Total No. of Questions : 5]			73	+	SEAT No. :	17.40		
PA-2555					[Total No	of Pages : 4		
			[5948]×105					
		M.C.	AI (Manag		nent)			
	IT - 15 : NETWORK TECHNOLOGIES							
		(2020)	Pattern) (Sem	169	ster - I)			
Time: 2	½ Ho		0,			x. Marks : 50		
		o the candidates:	,		* 0.000000			
1) 2)		questions are comput questions carry equal						
3)		w noar diagrams when						
	4	4.8			10			
<i>Q1)</i> W	rite th	ne correct option.			: (5)			
a)		2	N can be transm	nit	ted to another LAN	via		
,	de	vice	~		~			
	B.	Router	(m)	7	Bridge			
	iii)	Modem	Par y	, >	Repeater			
b)	Seg	gmentation and reas	sembly is done	ie	layer.			
	i)	Network	Ch COM		Data Link			
-	iii)	Transport	The iv)	Presentation	٩		
c)	Enc	ryption and comp	essionare done	a	t sender's side by _	layer		
	i)	Presentation	(5) ii)		Transport	layer 18		
	iii)	Network	iv))	Session	~ sto		
d)	Еп	or detection at the	data link layer is	a	chieved by	- 3.5.		
	i)	bit stuffing 🔗	ii)		cyclic redundancy	codes		
	iii)	hamming codes	iv)	equilization)		
e)	Wh	ich one of the follo	wing task is not	do	one by datá link řáye	r?		
	i)	framing	ii)		ertor control			
	iii)	flow control	iv))_'	channel coding			
f)	In c	yclic Redundancy	checking, what	S	CRC?			
	i)	the divisor	ii)	e e	quotient			
	iii)	dividend	iv)	0	remainder			
			\sim	X	,			
			80.	52		PTO.		

g)	g) Which error detection method uses is complement arithmetic						
	i)	Simple parity check	(ii)	Two dimensional parity check			
	iii)	CRC (S)	iv)	Checksum			
h)	Whi	ich error detection method co	nsist	s of one redundent bit per data			
	unit						
	i)	Simple parity-check	ii)	Two dimensional parity check			
	iii)	CRC 3	iv)	Checksum			
i)	The	IPV4 addresses are					
	i)	unique o	ii)	universal			
	iii) 🤝	unique and universal	iv)	common			
j)	IPW	addresses are represented us	ing.	7			
	i)	decimal notation	ii)	binary notation			
	iii) c	dotted-decinal notation	iv)	hexadecimal notation			
k)	The	address space of IPV6.	(My	0.1			
,	2)	8 bits	Sii)	32 bits			
	iii)	64 bits	iv)	128 bits			
1)		protocol allows the adm	insti	rator to assign a cost called the			
,	metric to each route.						
	i)	RIP T	ii)	OSPF			
	iii)	BGP 5	iv)	None of the mentioned			
m)	In C	OSPF, each router that is conn	ected	area border router			
				93			
	i)	back bone router	ii)	area border router			
	iii)	internal router	iv)	as boundary couter			
n)	DHO	CP provides to the cli	ent.	200			
	i)	IP address	ii)	MA Caddress			
	iii)	URL	iv)	None of the mentioned			
o)	A D	NS client is called	Æ	Will			
	i)	DNS updater	ii)	DNS resolver			
	iii)	DNS Handler	iv)	None of the mentioned			
			29	0.			
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[2240]-1	UJ	2	X'				

p) SMTP uses which of the following DGP port?					port?		
	i)	31		il 🚡 .)	43	
	iii)	25		i Vije	v)	27	
q)	q) Which of the following is not a form of DOS Attack?						
	i)	Vulnerability	attack	ii)	Bandwidth flooding	
	iii)	Connection-fl	ooding	iv	v)	Trojan Horse	
r)	Whi	ich methods ar	e commonly	y used	in s	erversocket class?	
	i) public outputstream getoutputstream						
	ii) _	public socket	accept ()			29	
	iii)	public synchi	onized voice	done	()		
	iv)	public void c				legy of the second	
s)	The	class	s is used to	creat D	ata	igrampacket?	
	(a).	Data grampao		(ii	J.	Datagramsocket	
,	iii)	Both of these		i	v) 6	None of the mentioned	
t)		is respo	nsible for e	stablish	nín;	g a connection.	
	i)	Socket	The state of the s	Si	()	Serversocket	
	iii)	Clientsocket	The state of the s	i	v)	None of the mentioned	
			1. Te)			ري.
<i>Q2)</i> a)	Enc	ode a binary w			ev	en parity hamming code	Z. Z.
(22) a)			60.				[5]
	-	ven number of	١.			6 .9.	
b)					01	011, check if there is erro	
	code	e word if divis	or 18 10101	•		0,000	[5]
				OR		B. Co.	
a)	A re	ceiver receive	d the ham	ning co	ode	1001010101 with ever	n parity.
	Find	d the error in re	eceived cod	le.	~	1001010101 with ever	[5]
b)	Gen	erate the hamr	ning code f	or the	data	a 14 011011 with odd par	rity. [5]
-/		0.000				a 14 1011011 with odd par	
					3	*	
[5948]-1	05			3	[]		

Q3) a)	Determine the network address for the following IP-addresses	[5]				
	i) 87.52.26.71					
	ii) 77.12.133.86					
	iii) 193.56.77.22					
	iv) 128.76.44.30					
	v) 100.77.44.13					
b)	Explain IP addressing with network masks and network addresses.	[5]				
	OR OR					
a)	Draw and explain IPV4 packet format.	[5]				
b)	Determine the network, subnetwork and host addresses if IP addresses	ress is				
	27. 54 19.33 and subnet mask is 255.255.224.0.	[5]				
	18.	(5)				
Q4) a)	Explain TCP protocol's working in detail.	[5]				
b)	Explain DNS and DNS - resource records in detail.	[5]				
	OR SV					
a)	What is open shortest path First protocal? Explain in detail.	[5]				
b)	Explain the functioning of SMTP protocol.					
	English Co	-				
Q5) a)	What are security attacks? Explain passive attacks in detail.	(A)				
b)	WAP for establishing termination of connection between clinet an	d server				
	using TCP.	. ^V [6]				
	OR 9 8.					
a)	Explain OSI model in detail.	[4]				
b)	Write a program for implementing the sliding window protocol of	window				
	size 5.	[6]				
	• • • ** **					
	Explain OSI model in detail. Write a program for implementing the sliding window protocol of size 5.					
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