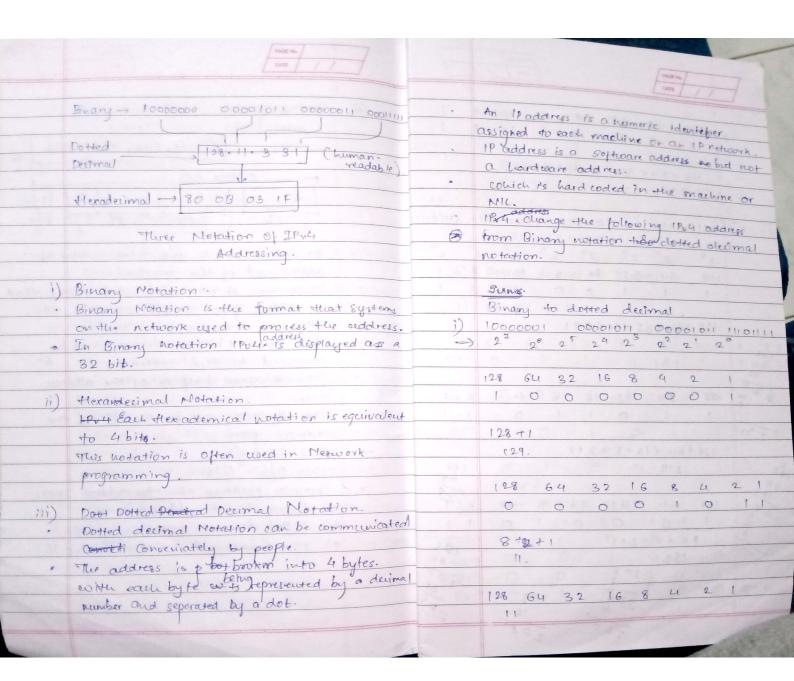
	DATE / /
(A)	The 1p adolress are classified in 2 ways.
(i	Static Marie
(1)	Dynamic
·)	Static: The Static IP address wouldy
	never change but they may be change
	as a texust of network administration.
(11)	Dynamic: - These are femperany IP address.
	There IP address are assigned to a computer
sulin o	when they get connected to the Internet
·	The addressing mechanism should be
	universally exce. allepted and cariquely
	identify the source and destingtion of
Maril 1 mgs	host conquters existing in a network.
	Marine Marine a contra a contra la c
(A)	four level of address
1)	Physical address
<u>(19</u>	l'ogical address
161)	Application
	The state of the s
<u> </u>	Physical doldr: Is a dol address of anode
400 20 1	defined by it's LAN on WAH
	and the same of the control of the same of
+1)	logical address: In the internet is a
	Currently a 32 bit or 128 bit address
	that can chargely define host corrected
	to the internet

	[DATE / /		
			POS IN
A 30 4 8 4 1) Application Specific address.		
	eg: e-mail. CIRL, MOSTE. Come.	(3	A) Address space.
	The second secon		
AR (A)	1P addressing !-	- 272	2 = 4, 204, 967, 206
TAPLES	no contain a management assists.		1/299, 967, 296
	32 bit.		Address space
To the same	Network id Hostid		A B C DI
	10000		50% 25% 12.5% 6.25
SERENA	IP addressing is the method wed to identify		1 5:25
128-22	Host and network devices.		- An address space is the total number of
	The number of host Connected to the		water used by the proposal.
	Internet continues to change the		2Pv4 uses B2-bit address solice no
-	internet continues to grow.	- Colonia	The hadress space is 2 or 4, 294, 962
	to the state of th	all the Parties	2966 1.e more than 4 billion).
~	Concept of 12 address:	P 120 T	More town 4 billion devices could be
			connected to the internet.
	An IP address is an address used to unique		Class A cover hay or of the address
	identify a device on an IP Network.		Space,
-	IP address is a 32 bit representation that		class B covers one fourth 1/4 of the
	uniquely identifies a sperific interface or		address space
	the network.	-	00-10
	A 32 bit (Paddress actually consist of		class D/E: 1/16.
	following two parts:	0	Common notation in the address space
100 100	a) Metrodrk 10:- Identifies the network	14	a) Binary notation (base 2).
	Or coluch a Host conjuter can fir be found	TO COLUMN	b) Dotted decimal notation (256)
	b) Most 10: I deuties the specifica device on		c) threadentermal notation base 16).
	the network.	12214	O of a contract of a contract of a
44 4 7	32 bit	jub o	3 has a with Land St. of James at the
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Metwork ID Host ID		And a 14 tracking but where a se
	eq: 145. 25 · 10·100		
	Network flost		



	PACE No.		
	DATE / /		
			Two /
	128 64 32 16 8 4 2 1		128 64 7
	1 1 1 1 1 1 1 1		128 64 32 16 8 4 2 1
There had	man salah pang salah sal	Wilcolo .	0 1 1 1
	128 + 64 + 32 + 8 + 4 + 2 + 1	3 4	64432416
	239.		64+32+8+4+2+1
	Manufacture of the Control of the Co	64	111
11)	11100111 11011011 10001011 0110111	32	/0
L. Arine	the trees the same and the same		231-219.139-111
	27 26 25 24 23 22 20		Maria Branch and Control of the Cont
	128 64 32 16 8 4 2 1	(A)	Dotted definal to Binary:
	1 1 1 0 0 1 1 1		and the strainty
	tentak kunan abayan dat sasa	1)	111. 56. 45. 78
	128 +64 +32 +4 +2+1		A STATE OF THE STA
1,29	and the state of the state of the contract of	e and a	128 64 32 16 8 4 2 1
6.4	231.	1119	0 1 1 10 1 1 1 1
22 4	1-1 6 1 22 10 10 10 10 10 10 10 10 10 10 10 10 10	calnalps	Carthete backers? Vo. verseller
2 4	128 64 32 16 8 4 2 1	56 ->	0 0 1 1 1 0 0 0
-	1 1 0 1 1 0 1 1		marken's a reducer at som
23 1	12841	45-)	0 0 1 0 1 1 0 1
	128 + 64 + 16 + 8 + 2 + 1		
148	219	787	0 1 0 0 1 1 0 0
GU	-8		yours on assay, we was to
20%	128 64 32 16 8 4 2 7	îi)	24. 221.34.7.82
2 2	1 6 0 0 1 0 1 1		
/2	128 +8 +2+1	2210	
2,0	139	343	0 0 1 6 0 0 1 0
	208	7-	0 0 0 0 0 1 1 1
	208. 192 216 192 24	82	
	216 192 24		
	220 208		
		I,	
		The second second second second	100 mm (100 mm) (100

	FINADE NO.		
	DATE / /		PROOF Vo.
		The state of	Class range of IP
(iii	Binary to hexidecimal.	30	A:-0=127
	TOTAL COROLOU GLOOTIN	NAME OF STREET	13:- 128-191
	1000000 0000000 occio		6-192-223
	8 0 0	L. di production	D - 224 - 239
	11/0 1/11		£ - 240 - 255
	1000 0001 000 01011 00001011 1110 1111	-130	C . 240 Z)
	8 1 0 B 0 B E F	(A)	Clossful Addressing
			The IP address structure is divided into
	COBOBEFIG	Line	5 address classes:
	O R		i) Class A
	OKSIOBOBEF		ii) class B
		-	iii) class (
	Note:		in) class D
1 9	& Heradecimal notation normally has		v) Class E.
1 10	no endded space or dot.		Shows the five classes of IP address.
-	However 0x is added at the beginning		0 1 2 3 8 16 24 31
9 9	or the subscript 16 at the end to show		A D Metwork Host ID.
	that the number is theradecimal.	111111111111	
-	Find the error in IPNH addresses.	-1-0-1	B 1 0 MeticogND HOST ID.
(5)	3 million		
(*)) 111.56.045.78 × 0 0000		c 11, 0 Met ID Host ID
(1)			
(iii)	27 1		19 11 1 1 0 Muchast Address.
iv)	11100010.23.14.67	1 01	
1	The Landing D		E 1 1 1 1 Reversed for future use
11 10	There must be no leading O.		r
/	There can be no more than 4 nounbers		
ii)	0		

	DATE III.		
	DATE / /		
			[man]
	class D address are used for Multicast		[11]
	radress. That allow a Host to save	(A)	In class B
	information to a group of HOST simultan	Hand	bytes are assigned to the
	cowly.	-	
	class & address are used swed throseserved	nditted 4	And remaining A
	for future use	The beauty to	And remaining two bytes are assigned
1	Class A is are used for largedesign for		Haddress Treat
	large and and the will a for	1 150 4 159	Format
	large organization with a large	- on	STATE OF THE PARTY OF THE STATE
	number of attach hos too muter.		class B: Netrant
	class B address were design for mid.		Class B: Aletwork Metwork Mode Mode
	Size Organization, with 10,000 of	(A	In Class a was
	Ottach flost and muter.		In class a networ the three first
	One problem with classful addresing	E) -9-9-9-3	network address.
	is that each class is divided into		
	fix number of blocks with each block	5.3H=3	And remaining one bytes are assigned to the work address.
	having a fix size.		address.
A			formatie"
9	In a class A network the first byte is		1D1 = 2 at
	assigned to the network address and the	in outsid.	
	remaining bytes are used fortue unde	10.14	alass: Metwork Network Network Nod
	address.	(A)	Class A address:
	10 10 10 10 10 10 10 10 10 10 10 10 10 1		Class A addressing:
	Format:	a rite and	i) The class first bit of the first ocatate is
	Carlotte Brookless Colol.	780	accorded set do O.
	Class 1:- Network Mode Mode Mode		1i) The highest bit order bit Ofthe network
	Entonikarak konseka idalah da		byte is always o
			11i) So that the first octate range from 140
			14) 0000 0001 - 0111 1111.
			m) The class A and address only include

	people Mo.		[man]
	DATE / /		man man
	12: xx to 126: x: x: x	(A)	class C addressing.
	++ IP starting from 1.7x.xx to 126.x.x.x.		. The first obtained octate of this class
	these is reserved for loop back		has first three bit set to the 110.
	10 211 400		· The first last and a de i
1	First byte specifies few Metwork portion		"The first bighest order bit 5,6,7
	(8 bit) remaining specifics the Host portion		of the Network portion of 110,
	(24 bit).		. 11000000 - 11011111
	Metwork values of 0 and 127 are reserved.		192 - 53 223
	This class is used for large addressing		. The first 3 byte specify the network
			porter postion (24 bit) the last byte
	There are 124 class A notions h.		Specifies the flost portion (8 bit).
	and the second s		· This class is used for sman Size
A	Class B addressing		network.
	· class B Here the I first two bits owners		
BARNET O	Set to O.	(A)	class D addressing
	. The highest order bit 6 and 7 of the		. The first 4 bit of the first octate
	network portion are 10		in class b 1P address are set to
	. 10000000-10111111		1110.
	128 - 191		240.00 111 00000- 110 1111
	· The first two bytes Specifies the Network		124-239.
	portion (16 bit) remaining bytes the	de:	class Dis reserved for moutitesking.
	tare last two byte specifies the		The Clase D does not have any
al sach	Host portion (16 bit).		Subnet mask.
	. The doclass is used for medium size		mosk.
iddressin	retwork:	(A)	Class &
			Class & addressing:
	Lapare service had not east of the		the class e 18 address are reserved
			to r experiental purpose only for
	The same of the sa		RM D or Study.
	100 - 100 0000 641		
	A PAST ATOM		

	RND (RESCIVE		
	POLICE NO.		
			This Ohit of
	01225 @ MARQ is 240.0.00 to	W. 1. 10 . 10 . 10 . 10 . 10 . 10 . 10 .	Shit 8bit 8bit obiologo
	Class & range is 240.0.00 to		
	The state of the s		32+8
0	eto classiess as addressing:		(40).
(A)	THE RESIDENCE OF THE PROPERTY		407 0740 786 80
	Nort classes		200.10.20.40/28.
	128 7		Rules
	Block Host		. Address should be contigues.
	Only blocks Biock Host ID ID		- No of addressess of every block
		1 107	must bin power of 2.
-	Notation 1111 > Mask x'y.2.w/n bit represent		- first address of every block must
9.00	bit represent	1 1 2 2 2	Be evently divisible size of blocks-
	the n lo.		the manufacture of the second
	eg: 200.10.20.40 28:		Subnetting.
	9 200 10 20 40	-	subnetting is a method for dividing
2 8.01	Host ID. (IEMA)	a de la	a classiful ip network into smaller
	TIOS (STD. CELLIN)	10	Subnetwork.
	200.10.20.40/28		The process of subnetting dividing
11111111		B. Wat	a network into smaller network
	90		is called subnets/subnetwork.
	-28 24: 16 -> Hosted.	>	A subnet is a logical partition of
	4 American American		an 19 network into mutiple. Smaller
	Meteoork ID.	-	network segment.
	1111111 1111111 HILLIN 1110000		Subnetting enables network administration
	8 8 8 84		to further divide the host part of
	5 5 5		the address into two or more subnet.
			A part of the host address is
	285 285 285 240		reserved to identify the particular
			Subnet.

	PRODE PIO.		[man]
- Artist	Cont.		wa 11
*	Find the subnetwork address for the	- 370	Public 1P Private 1P
	following:		address
	10000000000000000000000000000000000000	1)	Rublicly register 1) Not publicly
	141.181.14.16 - 58	231 414	on the Internet registered.
	25.255-255.0 -Mask	233	A Charles of the Committee of the Commit
	141.181. 0 + Subnet	ii)	We can directly ii) cannot directly
	address.	110 21	alless the public assess.
	wantiment house archibe.		1P.
The sind	200-34-22-156 - 19		3119
	255.255.255.240 - Mask	in	protoco ada
dayer.	200.34.22.144 - subnet		protocol ada,
- Laborini	address.		
			Mapping between protocol address and
	Made a		Is a second seco
(A)	- TUSNIAG .		regratione address is called address
(A)	Masking: Swernetworks		hardware address is called address
	Supernetworks		resolution.
(A)_	An organization can combine Several class		MAT is a process in which in one or
A	Supernetworks	SHIVEDS	mesolution. MAT is a process in which in one or more local IP address is translated
	An organization can combine Several class C blocks. to create a large trunge of address.		MAT is a process in which in one or
(a)	An organization can combine Several class C blocks. to create a large range of address. Several network are combine to create a	# (-A)	mesolution. MAT is a process in which intone or more local IP address is translated into one or more global IP address.
	An organization can combine Several closs C blocks. to create a large tauge of address. Several network are combine to create a super network.		mesolution. MAT is a process in which intone or more local IP address is translated into one or more global IP address. Internet Protocol:
	Supernetwork: An organization can combine Several class G blocks. to create a large truge of address. Several network are combine to create a Super network. When group of two or more group of	***	mesolution. MAT is a process in which intone or more local IP address is translated into one or more global IP address. Internet Protocol:-
(A)	An organization can combine Several class C blocks. to create a large range of address. Several network are combine to create a Super network. When group of two or more groupeds. Classfull hetwork are together they		mesolution. MAT is a process in which intone or more local IP address is translated into one or more global IP address. Internet Protocol:-
	Supernetwork: An organization can combine Several closs C blocks. to create a large tauge of address. Several network are combine to create a super network. When group of two or more groupeds. Classful hetwork are together tues are called supernet.		mesolution. MAT is a process in which intone or more local IP address is translated into one or more global IP address. Internet Protocol:-
	An organization can combine Several class C blocks. to create a large range of address. Several network are combine to create a super network. When group of two or more groupeds. Classful network are together they are called supernet.		mesolution. MAT is a process in which into one or more local IP address is translated into one or more global IP address. Internet Protocol:- IP datagram:
(Supernetwork: An organization can combine Several closs C blocks. to create a large tauge of address. Several network are combine to create a Super network. When group of two or more groupeds. Classful hetwork are together tuey are called supernet. Network Address Translation: (NAT)		mesolution. MAT is a process in which intone or more local IP address is translated into one or more global IP address. Internet Protocol:-
(An organization can combine Several closs C blocks. to create a large truge of address. Several network are combine to create a super network. When group of two or more group of classful network are together they are called supernet. Network Address Translation: (NAT)	(8)	mesolution. MAT is a process in which into one or more local IP address is translated into one or more global IP address. Internet Protocol:- IP datagram:
(An organization can combine Several class C blocks. to create a large tauge of address. Several network are combine to create a Super network. When group of two or more grouped. Classful hetwork are together they are called supernet. Network Address Translation: (MAT)	(8)	mesolution. MAT is a process in which into one or more local IP address is translated into one or more global IP address. Internet Protocol:- IP datagram:
(An organization can combine Several closs C blocks. to create a large truge of address. Several network are combine to create a super network. When group of two or more group of classful network are together they are called supernet. Network Address Translation: (NAT)	(8)	mesolution. MAT is a process in which into one or more local IP address is translated into one or more global IP address. Internet Protocol:- IP datagram:

		PAGE NO.	7			160	bits	FACE NO.	11
graeutat	Header Forms O 34 78 Version HEEN Service cabits Cabits 8bits Fine to live partocol 8bits 8bits Source 12 address C		Identification: - This 16 bit fields contains at a Specific number for primary data identification. Is wally it is incremented by 1. All fragments of a datagram contains the same identification value. Flags:- Pes DIF MF Gragment O G - First Parker						
3	Destination Practice of Coptions of Padding Coptions of Padding Coptions of Padding Coptions of Coptions of Padding Coptions of Coptions o	bytes) ide netwo nize alela through fi	ork, service	(A		outer action of sets outer and mobile IP task IETF	re:- ontains noing of otetro rich lagsam e IP:- e is an standa e). St	internet and (Im	t engineering communication to accord

one netwood to another cobile maintain a parmanent 19 address. The goal of mobile ip includes supporting t Supportive end system while maintaining effeciency and compatitive bility in an respect with existing applications with de IP. -Mobile (P communication protocol reters to the forwarding of internet traffic with a fix i Padottess. - Even the outside the home network. - 14 allows cuser having coincless or mobile devices to use flue internet remotely. planty the large / the car in a series