Name: Roghow Mahoshwasi ROUND: 53 Panel: A Assignment - B (DrcP) \* Theoly: Dynamic Most configuration for tocal (DMCP) It is a network management protocol that is used to dynamically assign Il address and other information to each host on network so that they can communicate efficiently. Drief automates and centerally manages assignment of it address earing work of network administration- In addition to Il address, OHCP also assigns Subnet malks, default gaterbay and domain name somes (DNS) address and other configuration to host and by doing so, it makes task of network administration easier. OHCP woods at application larger to dynamically assign if address to client and this happens thorough exchange of a peaces of meslage called Drich teremaction. ii) The weed your Drick: Dred reduces chances of common serious occurring when If addresses are assigned manually. It also ensures no too hosts can have some It addresses. DHCP plays an impositant sub in managing Small network whose mobile devices are used and sign requires IP addresses on a non-parmonent basis. The automatic allotrant of

Of Il addrosses allows mobile to move jucely from one network to another. It also helps reduces the typographical econoce asising whom it addess confiqueration paramoters aren't defined property. (ii) DHCP Message tosmat: All Dynomic Host conjiguration lewtocop mossage includes fixed format section and variable Journal section. Fixed joinant section consists of several fields that also some in every Dynamic HOST configuration brotord (AMCS) message. The variculate Josemant sections in dynamic Most configurations forebal contains 'OPTION', which carry additional configuration parameter. operation hardware type hardware addense code Dranscution Identifier Seconds Hage Client il address (ciaddes) 'your' if address (yiadder) 'service' Il addresse (Siadde) 'Crateray' (Paddeers (giadder) Hardware address (chadder (16 bytes) Client server name (Sname) (64 bytes) Bootfile name (128 bytes) options (variable size)

iv) DHCP oferation This fails into your phases - Leaves dis corpory, -> Illeave offer, > IP lease siequest. -> 18 Leave acknowledgement. These stages are often abbreviotes as DDRA Jordis-covery Offer, request and acknowledgment. DHCP Operation begins with client bewad casting a sequest. v) Teransition states (show and explain FSM you DHCP client) Drawition states are-1 101T states - When DMCH client fierst starts, it is INIT state (initializing state). Client beroadcast a DMCP-DISCOVER message (a regiont message without DHCPDISCOVER official) using post 67. · SELECTINGS state - Client is waiting to secretice DMCPso it can choose one. · Reguesting? Client is waiting to hear back prom server to which it sent its sequest. - INIT - Reboot - When a client that already has a valid power storts up after a powers down or resport, cit starts have instead of INIT state.

	Paladi A 15 b 1 a tal a tal a cill a call
	Roboting: A client has sectorated with assigned add. I will is writing jour a conforming scoply from
	sold is wouting job a conjouring steply from
	a polinoi.
	Bothod:
	Chia to I a la l
	Client has a valid leave and is in its normal
	operating state.
	D-
4	Kenewing:
	Client is tory to Jennew its lease. It siegularly sends DHCPREQUEST message with someon that your it nit current leave specified and soit 100
	Sends DHCPREQUEST message with some that your
,	it it current leave specified and waits your a room
•	Rebinding:
	Client has jailed to somew its leave with somes
	that assignable assisted it as I am to the source
	that originally granted it send now seeks a leave
	extention with any seemen that can hear it. It
	periodically bends DMCPREQUEST massage with no server
	specified until it gots a suply on leave ends.
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1)	a machina? and different ways to check Is adolerous of
1	a madria! address of
	Lose Windows-
	Open command beampt
	type is consig
	Tool sill and
•	Tool will section set of duta that Bridges your
	Jeddros.
1	

2)	What are different ways to cusign It address?	
7	It address stands for internet pertoral address it is identifying number that is associated with a specific computer.	
	There were two ways to assign it address -	
•	Static Il address is one that was manually created as offered to having been assigned. A static address ale does not change.	0.0
•	Synamic Most configuration bustocal source and is subject to change Dynamic Il adellosses and most common	zt
	costain amount of june, after that they expire- Computer will either automatically suggest new lease	
	Be computer may receive a new Il adobresses.	
3)	What is major difference by BOOTP & DHCP!	
	BODTP	
0	foot stands jour bootstrop. DMCP stands jour Dynamic host lewtocol.	_
	les tocal.	
	BOOTP does not perovide tem DMCP provides temporary if	
	longery If addressing, addlessing for only limits	
	amount of time.	
•	BOOTP does not supposit DHOP It stypposite BOD TP clients	_
	client.	

