Data Networks - (DCCN) -. Sessional -1: Name: Mirahil Shanzad. Registration 10: FAIR - BCS -077/B. Date: 22/10/20 Ques 1. a) of (distributed nash table) (dHT) is a austributed System, "Key value" pairs are stored in a (DHT) and any active node can efficiently retrieve the value assosiated with that given key, nodes can also be added or removed with minimum or no work around re-distributing teys. The properties that make it efficient are · fauet tolerance · Scalability etc -> Peer to Peer everlay networks enable peers that are participating to find the other peers not by their IP Addresses but cogical identifiers? which are quen to all peexs gor identification

	THE RESERVE OF THE PARTY OF THE	
	and fin Dean	to 01/5 50
- Ques 2.	s picks a random peer molog the peer for	-30).
- In BH-LOXETT	molog the peer for ume, Therefore	The ons
and opion	1 2 chesch	recieving #
a snow person	ally be options the	Look ga
- unipoked by one of	the neighborsy with the she received	memory
pers, during whi	in the she receives	address
the chunks grown	mat peer.	-) In co
		have the
Ques 3. recursive	Herative	Sends a
DNS Query	ONS QUELY	the 'Ro
- In "Remsive DNS Query"	In an "disative Query" the	992 th
the DNS server will	name Server will not	Advant
tiery getches all Quines/	itself gether the complet	Recussion
messages and respond	answer, but will give	are gas
- Back to you by giving	a refferal to other	resolved
the answer.	ons servers.	ones -
Scenario.	Scenario .	be du
Jor instance you open	of the DNS Server is	Memai
the Browser of search	an itantuin or	
gor 'NNW routube lom'	respond & will	
Now the operating	respond tack to us	1
System will send overy	y it has the answer	4
V		
107		No. of Concession, Name of Street, or other Designation, or other

to DNS server 10 (192.16.200 in the records otherwise give a refleral The one so ver, after to root servers, also recieving the Query, will it will not Query to cook gov it in cache the root servers memory to find IP Hself, rather our address for domain operating System - In case, It does not resolver will do this Job. have the answer, it In durative Query Sends Quesy to one of aient is responsible. the Root DNS Server Ix sending Query to my the ga the Solution servers until the ndvantages. Query gets resolved Remissive DNS queries complete are poster to get give resolved than the ative other ones - This may be due to cache Hemory Istorage 15 will nswer

ques 4.d. parrallel processing.	
aves 4. d. parties	-> BT wen
arvantage 1 01 flower	-> tey
advantages: approved speed of processing mustiple connections mustiple connections	-) value
multiple 1	to
multiple connections multiple connections multiple ways for of opens multiple ways HITP transactions	
711	Ques 3.
disadvarriages. - Rower consumption is nage by using - Rower consumption is nage by using - Architectures	F=
- Nowel consumption in appriate	JUS
- mueti- core architecture of naving inappriate	di =
results sometimes	FOR . N =
> better coding technologies are	
required in oase of clusters	153 550
7	
Ques 5 : / e	1 35
- Ine OHT is a single grant tracker,	1
- less gragmented than many trackers	FB N
- so, many peus more likely to gine	
- sacy office	3
- classic Bit-towent tracker is a	1
- Single point of failure	1
- regal attacks.	1
of wineks.	1

· DOS atlacks
-> BT clients use DHT;
-) tey = gile content hash
-> value = ip address of peer willing lable
to serve file
M. M
Ques 3.
F= 35 G161ts = 35840 Mbits

cheen FOR SCRIET = 35 Gibits = 35 x 1024 = 35840 Mbits Us 60 Mbps , di = Mbps N=50, 200, 2000 Des = may ta N.50, 35840 DO-5 = max 50 x 35840 60 29866 66, 8960 Der = 298666 FQ N= 200, 35840 200 × 35 840 Des max 1 119466 6 , 8960 MOY Des = 119466.6 DC-3 FOR N. 2000 \$960 max RS Dr-5 = max 9 494 666 6 89603

Peer to Peer.
Dros max & F/ F NFlus + EU
10 00 50 (60+ \$(06)
2p - may 759733, 59733, 302/5600
FOR N= 200,
0727 max 3 35840, 35840, 200x 35840
7 59733 , 59733 , 645120000