	عالايمه نين	suje M.
H>	Circuit Switching is more	4) Packet Switching us has Reliable
5)	Wastage of residences are in	9) his Wastage of resources as Compared to Circuit Switching
()	It is not a store & forward technique	1 en store & forward
7)	Recording of packet is nouverpossible in bround Switches q	7) Reporting of packet is proposible in packet suntithing
3)	Dimenstrate the Internet with an a	ppropriate figure for the same
	having IXP, ISP across rubs  End systems connect Connect to Internet wa across ISP a Clintone  Service Providers)  Across USP's in Jurn must be Interconnected so that any two	
	horte can sind pachite to each other Risulting Niturork of Neuroska is unit amplex	
	Tier   ISP Tier   ISP Ground   IXP   IXP	
-)	Tap (ISP) (ISP)	and regineral network may

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4) Explain the practically Implemented network-mobil and its
hist the functionalities of each of the hayers.
Sol) The OSI Model Copin Su Network model up a conceptual
framework used to describe the functions of a networking
system. The networ-model characterizes computing functions
into a universal sit of rules & requirements un order to
support interroperability between defluent softwares
-> The hayers are:
1> Physical hayer: The hours I hayer of the OSI refrence model
is the physical hayer. It is responsible for the actual
physical Conniction between the aluricy
2-3 The functions are
a) Bit synchronization
b) Bit rat Control.
B) Physical topulagies
2) Date link layer - The date link layer is responsible for the
monde - to - node delivery of the missage, Functionalities are
a) Framing
6) Physical addressing C) Ernyor Control
cl) Fhow Control
e) deurs control
3) Network layer: It works for transmission of dated from one
harst to the other booated in differs network, Functionallies are
i) Rowling
ii) Logical Addressing
4) Transport layer. It provides Survices to the applications layer
and takes services from the network drayer, Functionalities are
is Signentation & Risposimbly ii) Sinkir Poit Addressing
5) Suspulin layon: It is responsible for
is Sussian establishmen, maintenance & Termination
ii) Suna hunding Hap
ii) Rialize Controller
to
Sulekh3

(3 :	Presentation layer to the date from the application layer to
	entructed his and manufacta
Lo	transmit our the network, for functionalities are
0 1 30.	Translation and district and the state of th
( أناب الأنس	Encruption Decryption - Decryption - Decryption
หเ	Encryption   Decryption   Compression
7	Application later. This tays series as a windle for
	the application survices to access the network and for
41.	displaying the received into to the wir , functionalities are
?>	Network Virtual emind
11'	Mail Suries which is more in the house the surjet.
lui	Directory Surices.
	Charles of the Control of the Contro
95>	Compare the client surum & P to P network architectures
Sut>	> Client Survel Architecture
(1)	In this architecture, there is a smur and many clients.
90	distributed our the nurverk.
	The sour is always an while a client can be randomly nun.
1117	Usually there is no communication known two elients
14)	The sinus has fixed IP address.
	A some is able to Communicate with many clients.  The applications such as FTP, WEB, e-mail the use C-S architect
V)	Pto P network architecture
91	There is no didirated survey
* 1 11 (1)	Poins of horsts we called pure
701	Peurs Communicate directly with each other.
~00W	Name of texture must popular & traffic - Interprine applications are
	I bootel ON PUT OWNITTHIN
V	Frample Include file Shaving C Bist Torvent), Internet Telephion (Skyke) etc
	in sould the second
	- A School of the line of
	After some of the second of th
	SERVING THE VIEW
	Section 19 and 1
	I I april
	II

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(gc)	Explain stepuoiae non-persistene	HTTP protocol	
Sul)	> Step la: HTTP dient initiates		
	TCP connection to		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	•		
	on port 80	Step 16: HTTP is sever at host www. google.com	
		host wow, groups com	
		waiting for TCP	
	Stup 2: HTTP dients sundo HTTP	Connucion at put 80	
	Majort mussage Cantaining	"occupto" Connuction,	
	URL) anto TCP Connution	7(1)	
Socketo Message Indicates			
	that client wants object		
	St.,	3: HTTP surver receives requise	
	, sup	movedin thome waters wat.	
		Containing requested of object, and	
	Sund museage who sake		
		0	
	Slip S: HTTP dient warres Slip	4. HTTP surver closes TCP	
.42	respience Containing him	Conniction.	
	fil, diaplays himl.	owned All interdipe	
· <u>wallers a</u>	Parsing himl file, finds	χ τ	
	respuence Containing him!  fit, displays him!  Passing him! file, finds  10 refrenced joing objects		
	Slip 6: Step 1-5 repeated for each		
	of 10 this options.	The second of th	
(0.7)	Dimonstate the Interaction that has	phine in SMTP bituun AS	
	12 Las Sunding and Ykusiyery the km	OILD	
C., \ _>	Esplante well break SMTP due	N SMIP SHEW UNLD FULLO	
	Components such as usin agent	(10/4) and mail transfer	
	nain (MTA). The Most agent (U	A) prepares the missage, creates	
In the soul bus missage in the SNIVION			
-	,	(Suldste)	

	The moul transfer come (20174) 1 1 110	
	The mail transfer agent (MTA) transfers this mail across	
-3	THOULE	
	STMP allieurs more Complex suprem by adding a relaying	
Table 1	de position of the hander can MIN of Sanaline	
	side and one at reasuring side, more MTA & can be	
L.	added wine either and state of the print can be	
	emoul acting either as a cliene or sever to relay the	
<b>-</b> >		
4.4	This relaying System without 7CP/IP priorocal can also be	
-	the use of the mail gateway. The mail gateway is a relay	
	MIA that can be used to receive an email.	
	no receive an email.	
	Urun A	
	1	
	& asm B	
	[UA]	
	Mail Syster	
	MTA	
	Mail Mail	
	Methor	
	Gratevan Cratevan	
0 0		
4 87	application Bet Raymont	
	The Collection of all amounts	
	The Collection of all pure participating in the distribution of a particular file is called a torner.  Peuro disunford equal-size changes of the file basis in	
اف	Para la la la la contra a tornens.	
	Peurs disuntinad equal-size chunks of the file throm one	
	The true of the second of the	
-	the feet has also mislands should be	
175	COLUMC The entire !!	
- A -	the tornent or remain un the tornent	
4	When a new caises	
200	Aberro of tokkelet	
	CHISTORIA CHILLIAN TO LACK K. I.	
001	the forestating intomo the tracker it	
	When a new pour joins the torrent of the tracker	
	1 And Joseph Howker	

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7	randomly solices subside of pours from the set of
	Fun the new poor sunds the JP address of these
7	
00.	Thin the new pear tries to establish concurrent TCP
	connections with all purs on the hist
iv \	Periodolly, the new pour will ask cach of nightering
	purs for at of chunks.
	Pein Pein
	obtain 1
	peur l
	Hice Trading Church
	- ()
9>	Explain the contribut of FTP along with sample responses
	and codes:
	When Session Starts the client Priliates a Control -
	Connection with the SIHKE on part 21
0.	The client sinds usin - identity and passivare our the
	control - connection
w v	Thun, the surum gritiates data- connection to the cliens on
	10.00 ·
ŵ	FTP sinds exactly one file over the date - Connection and then
	dona the data - connection
V \	Moually the Control - Connection remains open throughout the
	duration of the unit - Sersion
VI	But, a new data - connection is created for each file
4	transferred with a & sission
	[Subta]

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<u> </u>	331 Usuname OK, password required		
<u> </u>	125 Dara Connection already open; transfer Starting		
1 1	42 Can't Open data-Connection		
- 100	452 Ennor writing file.		
	(36) 1999 0100		
10)	Enterior of etc along with Samuel Reads		
11/ 10/	E What is Internet Protocol Stack? Explain Survices		
	priorieted by each layer		
Sids	Internet Protocol Stack is the first layer that Introduces		
<b>Q</b> <i>W</i> <b>O</b> /	the Histural puturosts abstraction that is the basic		
	principle of the Internet Model.		
	1 4		
	Application		
	Transport		
	Netwok		
	Link		
	Physical		
<b>→</b>	Application: It supports retwork Applications like		
auE	EFTP ISMITE. SHITTPELL 91 FIF Longither it males (P		
	Transport: It priviles process to por process date		
	transfer or Communication like E. 1cP, UDP		
· ->	Network: Routing of datagrams from source to distinction		
	Enc. 1P, routing Protocolo		
	Link - Data Transfer Bituer nighboring returns clements		
	Eta: Ethurnet, WiFi°, PPP		
	Physical - They are sometimes amitted, It represents differed types		
	of physical media that can be used for Communication		
	Hatter Ber Ster Ster Ster Ster Ster Ster Ster St		
ابر			
-	The second of th		
	The state of the s		
200	Scanned with CamScanner		

		_
\$ 157	Describbe the tallinguising	
(i	Describte the following	
ïì	> Dulay	
Ĭii	> Relay > Throughput	
Solis	Parket hoppi - When accurain	of any neterosts the internet ar
,	any networks small units a	de data called packets are
	sunt and regived, when	on on more of this perkets
	drul to reach its intended	destination, this is called PL
11	Dulay :- It is a disjon	and performance characteristic
	of Communication Network	s It specifies the lateray
	for a bit of date to tra	vel across the nowork
	From one Communication	endpoint to another.
111	> Throughput: - It is the	reals at which bits are
	transferred bureau sinde	- receiver
	Instantanuous: rate at que	
2)	average - rate over longer	puroal of time
	9	4 1.
13>	Rifference burner TCP &	UDP Survices
	Transmission Control Protocol	More electroniano Punto
	TCP & reliable as it	i) The delivery of data to the dertination Cannot be
	go guarantes the delivery	destination Cannot be
	of data to the distinction	guaranteed in UDP
	houser	0
ع()	Acknowleddings Signer is	2) No Acknowledgement Segment
	Presing	0 3
3)	TCP is Comparatively shown	3) UDP is ferser Simple and more efficient than 1CP
	than upp	efficient than 1cp
4>	Rettanomission of host partets is prensible in TCP	4) There is no retrumpmission of
	parkets is prensible in TCP	4) Thur is no retransmission of hond packets in the UDP
	by not a dr-UDP.	10 (1)) I

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	Distriction	Correction	
	9244 00162	to the last	
	U	7 12	
5 >	TCP is havy - weight	5) UDP is light weight	
6)	TOP distort Supposet	6) To ODP Supports Broadcasting	
	TCP down't Support Broadconting	Branca des Maria	
	C)	Oreability	
7)			
()	Uses handshahs guch as	·7) It is a Connectionless	
	SYN, ACK & SYN-ACK	protocal ie No Handshake	
,			
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<u> </u>			
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No.		Sulfit	