Ques	stion 1
	A CDN is a company that installs many geographically distributed caches throughout the Internet, thereby localizing much of the traffic. What does the abbreviation stand for? Choose one answer. 1. conditional GET 2. Content Distributed Network 3. round-trip time
	O 4. distribution time
Ques	A DNS resource record (RR) is a four-tuple record that contains what fields? Choose one answer. 1. Domain name system 2. conditional GET 3. P2P architecture 4. (Name, Value, Type, TTL)
Ques	A simple file transfer protocol that uses two parallel TCP connections (a control connection and a data connection) to transfer a file. Choose one answer. 1. TCP (Transmission control protocol) 2. Application-layer protocol 3. FTP (file transfer protocol) 4. UDP (User datagram protocol)
Ques	A software interface which messages are sent into and messages are received from in the network. Analogous to the doors of a house. Choose one answer. 1. DNS 2. cookie 3. file 4. socket
Ques	A TCP connection between a client and a server requires a minimum of how many RTTs? Choose one answer. O 1.8 O 2.2 O 3. DNS O 4. NF/u
Ques	A web cache is also known as a? Choose one answer. 1. proxy server 2. port number 3. socket 4. data center

A web server identifies users by storing a file on the users computer using the set-cookie header in a server response. If a client already has a cookie it can notify the server of it using the cookie header. The file is known as a: Choose one answer. 1. socket 2. cookie 3. file 4. F/dmin
An enhancement for TCP providing security: Choose one answer. 1. Time to Live 2. socket 3. canonical hostname 4. SSL
Question 9 Because a host could be running many network applications, a destination
Question 10 Different methods of HTTP request: Choose one answer. 1. reliable data transfer 2. +OK and -ERR 3. USER, PASS, LIST, RETR, STOR 4. GET, POST, HEAD, PUT, and DELETE
Question 11 DNS is the abbreviation for: Choose one answer. 1. conditional GET 2. data center 3. canonical hostname 4. Domain name system
Question 12 During the transaction phase POP3 can be configured to: Choose one answer. 1. "download and delete" or "download and keep" 2. host aliasing, mail server aliasing, load distribution 3. GET, POST, HEAD, PUT, and DELETE 4. HELO, MAIL FROM, RCPT TO, DATA, and QUIT
Question 13 How doess Post Office Protocol Version 3 (POP3) access mail? Choose one answer. 1. A request line, header lines, and an entity body 2. USER, PASS, LIST, RETR, STOR 3. It does so in 3 phases: authenticate phase, retrieve phase, update phase 4. user agents, mail servers, and SMTP

Question 14 How is the DNS hierarchical database broken down? Choose one answer. 1. A request line, header lines, and an entity body 2. Date, Server, Last-Modified, Content-Length, Content-Type 3. A status line, six header lines, and then an entity body 4. 13 Root DNS servers to top level DNS servers to authoritative DNS servers
Question 15 How many bits are typically in a byte? Choose one answer. O 1. DNS O 2. NF/U O 3. 2 O 4. 8
Question 16 HTTP is defined in which RFC? Choose one answer. O 1. RFC 1235 O 2. RFC 2616 O 3. RFC 2334 O 4. RFC 1221
Question 17 Important services DNS provides Choose one answer. 1. host aliasing, mail server aliasing, load distribution 2. USER, PASS, LIST, RETR, STOR 3. user agents, mail servers, and SMTP 4. HELO, MAIL FROM, RCPT TO, DATA, and QUIT
Question 18 In a P2P file transfer among N peers the is the time it takes to get a copy of the file to all N peers. Choose one answer. 1. Time to Live 2. distribution time 3. conditional GET 4. round-trip time
Question 19 In order to improve DNS delay performance and to reduce the number of DNS messages this method is used: Choose one answer. 1. socket 2. DNS 3. cookie 4. DNS Caching
Question 20 In P2P, what is the formula for the minimum distribution, where F is the number of bits in the file? Choose one answer. 1. DNS 2. cookie 3. F/dmin 4. NF/u

Question 21
In the Internet, the host is identified by its:
Choose one answer.
O 1. DNS
O 2. F/dmin
3. socket
() 4. IP address
Question 22
In this type of architecture there is an always-on host, called the server, which services
requests from many other hosts, called clients.
Choose one answer.
1. distribution time
O 2. round-trip time
3. client-server architecture
O 4. proxy server
4. Ploxy server
Question 23
Name two popular mail access protocols:
Choose one answer.
O 1. Time to Live
O 2. ICMP and POP3
3. +OK and -ERR
O 4. IP address
Question 24
Often in a client-server application, a single-server host is incapable of keeping up with all
the requests from clients so for this reason a, housing a large number of hosts, is
often used to create a powerful virtual server.
Choose one answer.
O 1. data center
O 2. true
3. proxy server
O 4. port number
O 4. port nomber
Question 25
One of the most compelling features of P2P architectures is their
Choose one answer.
0 1. conditional GET
2. socket
3. DNS Caching
O 4. self-scalability
Question 26
RTT is the abbreviation for?
Choose one answer.
0 1. round-trip time
O 2. conditional GET
3. round turnaround time
O 4. distribution time
C 4. Giribonoti littic
Question 27
Sockets are the between the application and the network.
Choose one answer.
1. Application Programming Interface
2. Application-layer protocol
3. distribution time
O 4. reliable data transfer

TCP an U protocol	IDP are forms of transport layer protocols, HTTP and SMTP are forms of what ?
_	one answer.
	1. conditional GET 2. canonical hostname
_	z. canonicarnosmame 3. FTP (file transfer protocol)
_	4. Application-layer protocol
Question 29	
The book IP) as a	describes relay1.west-coast.eneterprise.com (a hostname which contains the
•	one answer.
_	1. canonical hostname
_	2. conditional GET 3. Time to Live
_	4. distribution time
Question 30	eral format of an HTTP request message contains:
_	one answer.
	1. GET, POST, HEAD, PUT, and DELETE
	 A status line, six header lines, and then an entity body A request line, header lines, and an entity body
	4. user agents, mail servers, and SMTP
Question 31	
	eral format of an HTTP response message contains
	one answer.
	1. user agents, mail servers, and SMTP
	2. A status line, six header lines, and then an entity body 3. A request line, header lines, and an entity body
_	4. host aliasing, mail server aliasing, load distribution
Question 32	
	hanism by which HTTP allows a cache to verify that its objects are up to date is
called a:	
	one answer. 1. cookie
_	7. COORIE 2. conditional GET
_	3. round-trip time
O .	4. Time to Live
Question 33	
The six he	eader lines of an HTTP response message are
_	one answer.
_	 A request line, header lines, and an entity body user agents, mail servers, and SMTP
	3. USER, PASS, LIST, RETR, STOR
O .	4. Date, Server, Last-Modified, Content-Length, Content-Type
Question 34	
-	ocol uses UDP and can be thought of as the "Internets Directory Service."
_	one answer. 1.8
	2. NF/u
Q :	3. 2
O 4	4. DNS

Question 28

Question 35
True of False: FTP must maintain state about the user.
Choose one answer.
O 1. true
O 2. false
Question 36
True or False: an HTTP server is stateless
Choose one answer.
0 1. false
2. 1106
Question 37
True or False: IMAP allows the user to view message instead of download them from a
hierarchy on a remote server.
Choose one answer.
O 1. True
O 2. 8
O 3. cookie
O 4. DNS
Question 38 Typical commands issued in SMTP
Choose one answer.
1. HELO, MAIL FROM, RCPT TO, DATA, and QUIT
O 2. (Name, Value, Type, TTL)
3. user agents, mail servers, and SMTP
O 4. USER, PASS, LIST, RETR, STOR
4. 03LK, 1 A33, LIST, KLTK, STOK
Question 39
What are the two responses in POP3?
Choose one answer.
O 1. data center
O 2. IP address
O 3. +OK and -ERR
O 4. ICMP and POP3
Question 40
What are the types of a DNS RR?
Choose one answer.
1. Type A which has the IP address and Type NS which knows the authoritative serv
to get the IP, Type CNAME which is a canonical hostname for the aliasing, and typ
MX the canonical name of a mail server that has an alias hostname.
2. A status line, six header lines, and then an entity body
3. 1 RTT for hand shake + 1 RTT for web page + 20 RTT for each referenced object
4. 13 Root DNS servers to top level DNS servers to authoritative DNS servers
Question 41
What is the minimum total distribution time for P2P?
Choose one answer.
O 1. UDP
2. USER, PASS, LIST, RETR, STOR
3. max{F/u,F/dmin,NF/(u+sum of rate of peers)}
O 4. Name, Value, Type, TTL
Question 42
When requesting a web page with 10 referenced objects how many RTTs are needed
with persistent connections?
Choose one answer.
1. 1 RTT for hand shake + 1 RTT for web page + 20 RTT for each referenced object
2. A status line, six header lines, and then an entity body
3. It does so in 3 phases: authenfic@fe6phase, retrieve phase, update phase
\bigcirc 4. 1 RTT for hand shake + 1 RTT for web page + 10 RTT for each referenced object

Question 43 Which of the following is a common replies in FTP? Choose one answer. 1. 331 Username OK, password required 2. USER, PASS, LIST, RETR, STOR 3. 425 Can't open data connection 4. 125 Data connection already open; transfer starting 5. A request line, header lines, and an entity body 6. 452 Error writing file 7. A status line, six header lines, and then an entity body
Question 44 Which of the following is a formula to convert a MB to a B? Choose one answer. 1. 1024 bps 2. 2 3. true 4. 1024^2 B
Question 45 Which of the following is a type of HTTP connection that keeps connections open after a request to the server? Choose one answer. 1. port number 2. non-persistent connections 3. distribution time 4. persistent connections
Question 46 Which of the following is a type of HTTP connections that closes after each request from the client. Choose one answer. 1. distribution time 2. round-trip time 3. non-persistent connections 4. Content Distributed Network
Question 47 Which of the following is a typical HTTP response status type? Choose one answer. 1. 1 RTT for hand shake + 1 RTT for web page + 20 RTT for each referenced object 2. A status line, six header lines, and then an entity body 3. 200 OK, 301 Moved Permanently, 400 Bad Request, 404 Not Found, 505 HTTP Version Not Supported 4. A request line, header lines, and an entity body
Question 48 Which of the following is the differences between HTTP and SMTP? Choose one answer. 1. A status line, six header lines, and then an entity body 2. TCP (Transmission control protocol) 3. API (Application Programming Interface) 4. HTTP is a pull protocol, SMTP is a push protocol, SMTP messages must be 7-bit ASCI HTTP encapsulates images and other media types while SMTP places all objects into one message

Question 49		
Which protocol is the underlying layer of HTTP and is said to be a connection-oriented		
service.		
Choose one answer.		
1. FTP (file transfer protocol)		
O 2. TCP (Transmission control protocol)		
3. SMTP (Simple mail transfer protocol)		
O 4. UDP (User datagram protocol)		
Question 50		
What does TTL stand for?		