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Started on	Monday, 7 March 2022, 3:07 PM
State	Finished
Completed on	Monday, 7 March 2022, 3:27 PM
Time taken	20 mins
Marks	14.00/25.00
Grade	<b>56.00</b> out of 100.00

Question 1 Correct Mark 1.00 out of 1.00

Which one is NOT a characteristic of client-server architecture?

## Select one:

- a. The server(s) is always ON
- b. Every end system can act both as client and server
- oc. Every client can only communicate with a dedicated server
- d. The server has permanent IP address

The correct answer is: Every end system can act both as client and server

Ques	tion 2	Correct	Mark 1.00 out of 1.00
Whic	th one is NO	Γ a charact	eristic of peer-to-peer (P2P) architecture?
Selec	t one:		
	a. Every pe	er or end s	ystem can act both as client and server
	b. Every pe	er that join	s the network can communicate with each other
	c. The serve	er(s) in P2P	network is not always ON
	d. The serv	er in P2P n	etwork has permanent IP address 🗸
The o	correct answe	r is: The ser	ver in P2P network has permanent IP address
Ques	tion 3	Correct	Mark 1.00 out of 1.00
The	transport lay	er protoco	I used by DNS:
		•	
Selec	t one:		
	a. SCP		
	b. RTP c. TCP		
	d. UDP 🗸		
	u. ODF 🝑		
The	correct answe	r ic: LIDD	
THE	orrect ariswei	1 13. 001	
Ques	tion 4	Correct	Mark 1.00 out of 1.00
This	thing happeı	ns only in H	HTTP non-persistent connection:
Selec	t one:		
	a. Several o	bjects can	be sent in a single TCP connection
	b. Multiple	TCP conne	ctions are not required to download several objects
	c. TCP conn	nection is cl	osed after all objects referred in the base html have been sent
	d. Only one	object car	be sent in a single TCP connection 🇸

The correct answer is: Only one object can be sent in a single TCP connection

Question 2

**Question 5** 

Partially correct

Mark 4.00 out of 8.00

A client accesses a website which landed in an index.html page. It turns out that the index.html page contains references to 1 css file, 1 javascript file, and 10 jpeg images. How many RTTs are required by the client to load the whole page by using the following HTTP method:

#### NOTE:

- Just write the total RTTs in number.
- Assume 2-way handshake for TCP connection establishment, and ignore file transmission time and TCP closing)
- a. Non-persistent with non-parallel: 26  $\checkmark$  RTT
- b. Non-persistent with 4 parallel connections: 14 X RTT
- c. Persistent with non-pipeline: 14 V RT
- d. Persistent with pipeline 4 requests (assume requests and response can be pipelined at the same time): 52 × RTT

# Question 6

Correct

Mark 1.00 out of 1.00

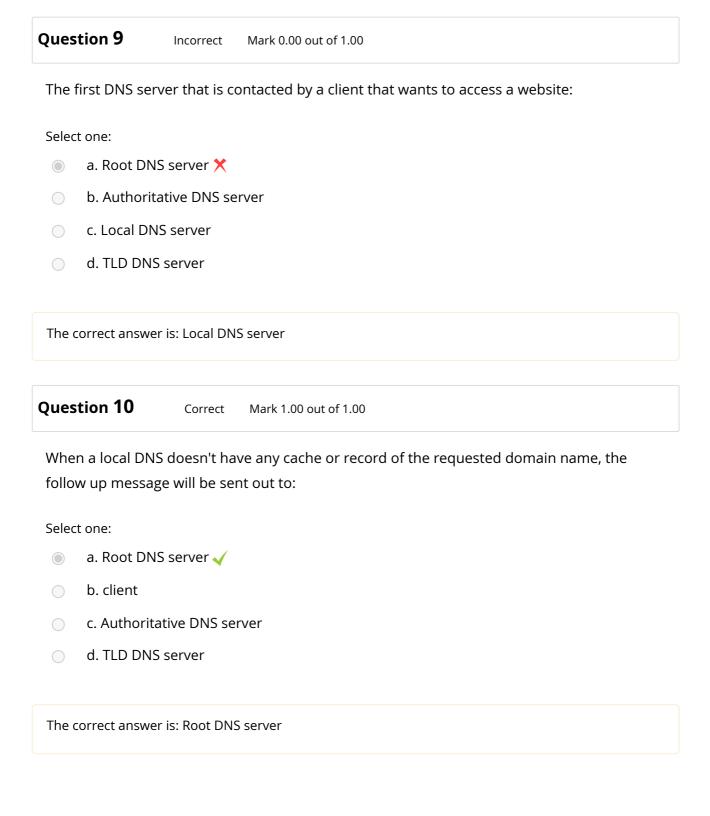
A HTTP Request contains \*If-modified-since: <date>\* field, and it turns out that the cache-copy in the browser is out-of-date (e.g. there is change after the \*<date>\* of cache-copy). What response is sent by the server then?

#### Select one:

- a. HTTP 200 OK (no Data)
- b. HTTP 304 Not Modified + Data
- c. HTTP 200 OK + Data √
- d. HTTP 304 Not Modified (no Data)

The correct answer is: HTTP 200 OK + Data

Question 7 Corr	rect Mark 1.00 out of 1.00	
Which is NOT the adva	intages of web caching using proxy server?	
Select one:		
<ul><li>a. Easier to monit</li></ul>	itor the traffic in the organization 🧹	
b. Improve effect	tiveness of content delivery for poor content provider	
o. Reduce latency	y of client's request to the remote server	
d. Reduce outbou	und traffic in the organization's access link	
The correct answer is: Ea	asier to monitor the traffic in the organization	
Question 8 Inco	orrect Mark 0.00 out of 1.00	
Which one is NOT the a	advantages of HTTP/2 over HTTP/1.1?	
Select one:		
a. Packet loss rec	covery does not stall all object transmission	
<ul><li>b. The object is dimitigate HoL blocking</li></ul>	livided into frames and performs interleaving frame transmission to ing 🗶	
c. Backward complete headers are unchar	npatibility with HTTP/1.1, i.e. methods, status codes and most nged	
d. Transmission o	order of requested objects based on client-specified object priority	
Your answer is incorrect.		
The correct answer is: Pa	acket loss recovery does not stall all object transmission	



	tion 11	Incorrect	Mark 0.00 out of 1.00
DNS	record type tha	t is used t	to translate a host name into its authoritative DNS server:
Selec	t one:		
	a. MX		
	b. A 💢		
	c. CNAME		
	d. NS		
The o	correct answer is:	NS	
_			
Ques	tion 12	Correct	Mark 1.00 out of 1.00
Whe	n an Authoritati	ve DNS se	Mark 1.00 out of 1.00 erver receives a query by using *iterative* method, say for a response section contains this information:
Whe dom	n an Authoritati	ve DNS se	erver receives a query by using *iterative* method, say for a
Whe dom	n an Authoritati ain name *abc.o t one:	ve DNS se	erver receives a query by using *iterative* method, say for a
Whe dom Selec	n an Authoritati ain name *abc.o t one:	ve DNS se org*, the i	erver receives a query by using *iterative* method, say for a response section contains this information:  ame server's IP address
Whe dom Selec	n an Authoritati ain name *abc.o t one: aorg's author b. abc.org's IP	ve DNS seconds, the representative na	erver receives a query by using *iterative* method, say for a response section contains this information:  ame server's IP address
Whe dom Selec	n an Authoritati ain name *abc.o t one: aorg's author b. abc.org's IP c. abc.org's aut	ve DNS seconds, the restrictive native address withoritative	erver receives a query by using *iterative* method, say for a response section contains this information:  ame server's IP address
Whe dom	n an Authoritati ain name *abc.o t one: aorg's author b. abc.org's IP c. abc.org's aut	ve DNS seconds, the restrictive national address withoritative erver dominative erver even erver even even even even	erver receives a query by using *iterative* method, say for a response section contains this information:  ame server's IP address  e name server and its IP address  nain name and its IP address

Question 13 Incorrect Mark 0.00 out of 1.00 When a TLD DNS server receives a query by using \*recursive\* method, say for a domain name \*abc.org\*, the response section contains this information: Select one: a. .org's TLD server domain name and its IP address 💢 b. abc.org's IP address oc. .org's authoritative name server's IP address d. abc.org's authoritative name server and its IP address The correct answer is: abc.org's IP address Question 14 Correct Mark 1.00 out of 1.00 The protocol used to send emails between mail servers: Select one: a. SNMP ob. POP3 c. IMAP d. SMTP 

✓ The correct answer is: SMTP

What SMTP \*MAIL FROM\* command does? Select one: a. defines the sender's email address to the email server b. writes the \*From:\* field within the email header lines c. let the email recipient knows who the sender is X d. tells the origins of the email server The correct answer is: defines the sender's email address to the email server Question 16 Correct Mark 1.00 out of 1.00 One of the differences between HTTP and SMTP: Select one: a. HTTP uses command-response interaction while SMTP uses query-response interaction b. SMTP pulls the message from the server while HTTP push the message to the c. HTTP encapsulates each object in its own response message while SMTP sents multiple objects in multipart message d. HTTP only uses non-persistent while SMTP only uses persistent connections

Mark 0.00 out of 1.00

Incorrect

Question 15

The correct answer is: HTTP encapsulates each object in its own response message while SMTP sents multiple objects in multipart message

Question 17 Incorrect Mark 0.00 out of 1.00

One of the tit-for-tat principle in BitTorrent:

### Select one:

- a. a node do not send chunks to the other peers beside the top four and the randomly selected peer
- b. every 30 secs, a node chocked the current top four peers and unchocked other four peers randomly
- c. a node sends chunks also to the other peers beside the top four and the randomly selected peer
- d. a node re-evaluate the top four peers every 30 secs X

The correct answer is: a node do not send chunks to the other peers beside the top four and the randomly selected peer

Question 18 Incorrect Mark 0.00 out of 1.00

One of the similarities between socket programming by using UDP and TCP transport service:

## Select one:

- a. When a client is connected, a new socket is created by a server to communicate with that particular client
- b. The server waits for connection establishment request from client
- oc. Both server and client create a socket to send and receive packet
- lacksquare d. Sender has to explicitly attach destination IP address and port number in the packet igstar

The correct answer is: Both server and client create a socket to send and receive packet