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Internet technology.

Mid-term Exam Summer-2020

Answer to the Question no—(1)(b)

Difference between SSL and TLS

SSL	TLS
① web-enabled application file sharing and email	① All IP based services
strong but variable depends on browser	strong and consistent- tied to specific implementation
Sales, Marketing, Executives, customer for users	③ HR, Finance, IT staff Engineering, for users



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Answer to the Question no - (P)(a)

Web security threats, consequences and,

Counter measure:

Parameter	Threats	Consequences	Counter measure
Integrity	<ul style="list-style-type: none"> ① Modification of user data memory, message traffic in transmit ② Trojan horse browser 	<ul style="list-style-type: none"> ① Loss of information ② Compromise of machine ③ Vulnerability to all other threats 	cryptographic checksums
Confidentiality	<ul style="list-style-type: none"> ④ Eavesdropping on the net ⑤ Theft of information and data from Server and client 	<ul style="list-style-type: none"> ④ Loss of information and privacy 	Encryption with proxies.

Denial of Service	① Killing of user threads	① Disruptive	Difficult to prevent.
	② Flooding machine with bogus requests	② Annoying	
	③ Filling up disk or memory	③ Prevent user from getting work done	
	④ Isolating machine by DNS attacks		
	① Impersonation	① Misrepresentation of user,	
	Authentication of legitimate users,	② Belief that false information is valid	
② Data forgery		Ex: log-inable techniques.	



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Answer to the question no - (4) (a)

DNS query steps with proper example.

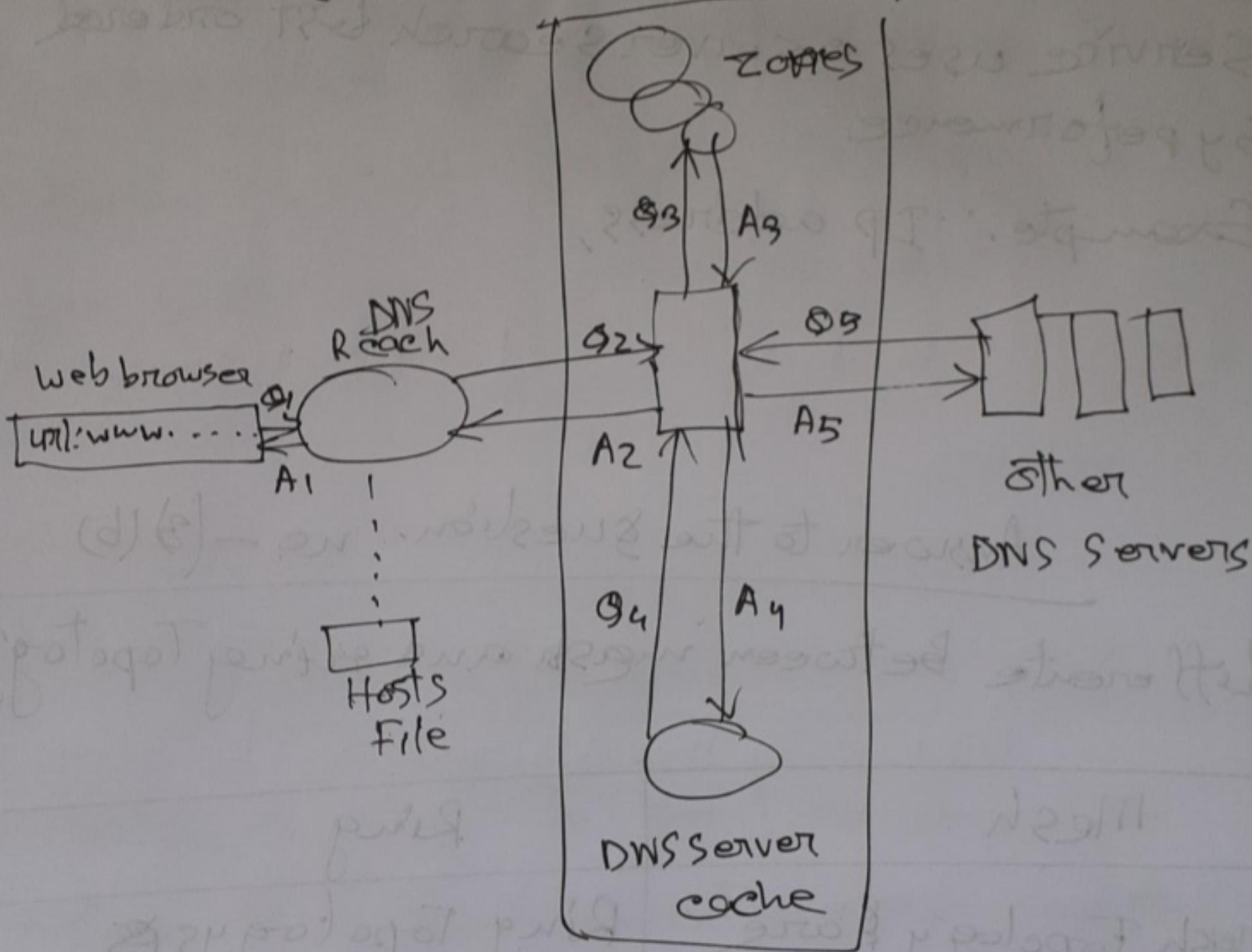
The DNS query process occurs in two stages:

- ① A name query begins at a client computer and is passed to the DNS client service for resolutions
- ② When the query cannot be resolved locally, the DNS client service passes the query to a DNS Server.

① The local Resolver:

② Querying DNS Server:

DNS query steps Diagram



① Local Resolver:

① if DNS client service cannot resolve the query from local cache information

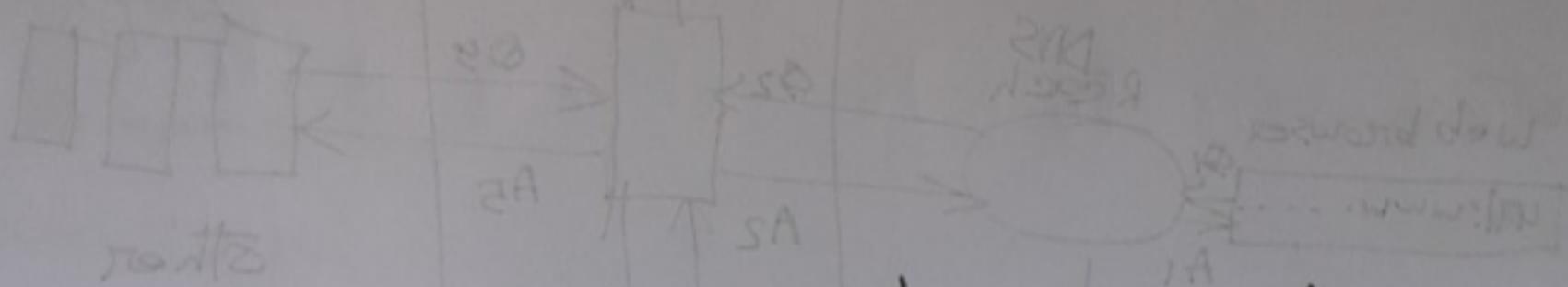


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② Querying a DNS Server: The DNS client service uses a server search list ordered by performance.

Example: IP address,



Answer to the question no - (3) (b)

Difference between mesh and ring Topology

Mesh	Ring
Mesh Topology & are connected to each other completely via dedicated link in which the information travel from nodes to nodes and there are $n(n-1)/2$ links in mesh.	Ring Topology is every node is connected to its left and right side nodes in which the information travel from nodes to nodes in ring manner in one direction.

② The cost of mesh topology is expensive.

③ Mesh is used for WAN

② The cost Ring topology is low

③ Ring topology is used in LAN

Answer to the question no -(3)(a)

p-node: a point -To- point connection refers to a communications connection between two communication end points on nodes.



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Mixed node: mixes b and p defaults

to b-node, if fails uses p-node resolution

Hybrid-node: hybrid of b and p:

defaults to p node, if fails uses b node resolution

(Q1(c)) - understand what it means

Answers to the Question no (5)(b)

difference between hub and bridge

hub

when a bit comes
into a hub or hub
interface, the

Bridge

like switches, they
store and forward
frames using the

- hub broadcasts the bit on all other interfaces
- no buffering

LAN destination address
 . Since they are local devices they involve less ports than the switches.

(5) (a)

OSI layer.

- ① Application layer
- ② presentation " ,
- ③ session ,
- ④ Transport , ,
- ⑤ Network , ,
- ⑥ Data link , ,
- ⑦ physical , ,

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⑦

