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Sec-23

Assignment - 1

Spring - 25 (B)

Ans to the ques no-1

source of unique numbers will form of

IP Address	Mac Address	Port Address
S. D	D	S. D

size of 11 characters known as dynamic .25

from www.apti.net a mail received from (SMTP) ~~whether~~

you have sent reward mail who

types of networks Ans to the ques no-2

I POST : send new data to the server

II UPDATE PUT/PATCH

This used to update the data & replace
any existing file with a newer version

III DELETE : removes the resource from
the server.

(Q) Q & Ans

Ans to the question bM
of IP address
SS - 002

Ans to the quest no 13

To map the domain name to the server

IP address A record should be used.

A record maps a domain name to its IP address.

IPV4 address. When a user types www.university.edu in their browser, the DNS looks up the address and allows the browser to connect to the correct server.

To allow access without 'www' the CNAME Record is used. It creates an alias, which makes the address point to the actual address even without the 'www'.

Ans to the ques no - 4 (d)

The website used HTTP instead of HTTPS which the search engines did not show on top due to possible security concern.

The possible improvement was made that was made was implementing SSL/TLS certificate, basically switching to HTTPS.

Ans to the ques no - 5

a) Fields used for demultiplexing:

I Source IP address

II Destination IP address

III Source Port Number

IV Destination Port Number

b) Connect sequence of the segments.

Ans to the que no-6

The proxy server has a ~~the~~ cached copy of the page that is valid till 21 March.

As the webpage was requested on 18 March,

so, the proxy server can use that cached copy. No need to fetch from original server.

This saves the bandwidth. as it allows faster response time as it is stored locally.

This reduces latency. So, the performance is improved.

Ans to the ques no-7

I Total RTT delay = 1200 ms

Total objects = 15

$$\therefore \text{RTT} : \text{Single RTT} = \frac{1200}{15} = 80 \text{ ms}$$

II Total data = $(10 \times 3) + (5 \times 7) = 65 \text{ MB}$

$$\text{Transmission time} = \frac{10 \times 3 \times 8}{100} + \frac{5 \times 7 \times 8}{100}$$

$$= 5.2 \text{ s}$$

$$= 5200 \text{ ms}$$

Ans to the ques no-8

I Received byte ≥ 10 (as lost) \rightarrow $S_n = 5432 + 10 = 5442$

$$\therefore ACK-1 = 5432 + 0 = 5432$$

$$Sequence = 5432 + 10 = 5442$$

$$ACK+1 = 5432 \text{ Ans}$$

III Recv receiving window for ACK-2

will be client RWND = 8000 bytes

Ans

IV Server's S_n value after the second s_1 ,

$$S_n = 5432 + 6.87$$

$$= 6119 \text{ Ans}$$