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See: 822

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Ans. to the ques. no. 1

	Source	Destination
Mac address	G	H
IP address	1	11
Port address	5093	80

Ans. to the ques. no. 2

- I ~~a~~) ~~POST~~ POST
- II) PUT / PATCH
- III) ~~B~~E ~~DELETE~~ DELETE

Explanation: The PUT method should be used as an update involves replacing the existing assignment on the server with a completely new version.

Ans. to the ques. no. 3

A ; maps non-www domain name directly to the website's IP address

CNAME; maps an alias to the canonical domain name

Ans. to the ques. no. 4

The issue occurred due to the use of HTTP instead of HTTPS. The security improvement made was 'implementing HTTPS by installing an SSL/TLS certificate. This encrypts the communication between user's browser and website server.

Ans. to the ques. no. 5

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Demultiplexing fields:

1) Source IP Address

2) Source Port Number

3) Destination IP address

4) Destination Port number

Sequence in ascending order:

1, 2, 3, 4, 5

Ans. to the ques. no. 6

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The cached page will expire on $16+5 = 21^{\text{st}}$ March.

So, the cached copy will be ~~sent~~ sent by
the server to the client

Benefits:

1) saves Bandwidth

2) Improves efficiency

3) Reduces Latency

Ans. to the ques. no. 7



I) Let

$$N = 15$$

$$\therefore \text{Total RTT delay} = 15 \times (2 \times \text{RTT}) \\ = 30 \times \text{RTT}$$

$$\Rightarrow 1200 = 30 \times \text{RTT}$$

$$\Rightarrow \text{RTT} = 40 \text{ ms}$$

II)

$$T_2 = \frac{C5 \times 8 \times 10^6}{150 \times 10^6}$$

$$= 5.2 \text{ s}$$

$$= 5200 \text{ ms}$$

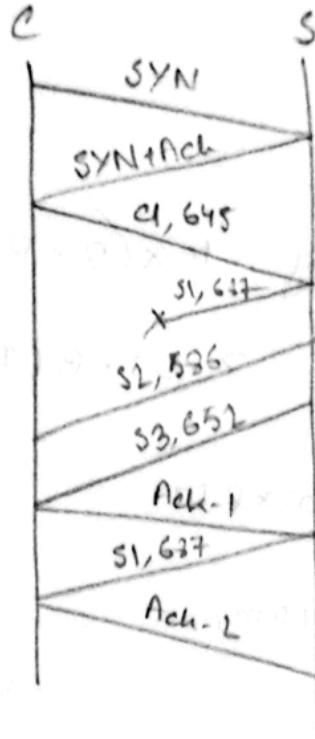
ETFE + FRA - owing (T)

$$C5H2 + FRA - 600 (0)$$

$$282 + 600 = 882$$

$$= 882 \text{ ms}$$

Ans. to the ques. no. 8



I) $\text{Seq: } 9876 + 1 + 645 = 10522$

Ack of Ack1 = $5432 + 1 = 5433$

= ~~5433~~ 5433

II) ~~8500~~ - 687 = 27313

III) ~~5433~~ = $5432 + 1 = 5433$

SN = $5433 + 586 + 687 + 652$

= ~~5433~~ 7353