MODULE-1 ASSIGNMENT

Question:1

Please break down the URLs listed below. (list-out protocol, Domain, TLD).

https://www.flipcart.com/

https://www.irctc.co.in/

https://www.allegro.pl/

https://www.johnlewispartnership.co.uk/

https://www.uidai.gov.in/

Answer:

https://www.flipkart.com/

Https : Protocol
Www : Subdomain
Flipkart : Domain
.Com : Top Level Domain (TLD)

https://www.irctc.co.in/

Https : Protocol
Www : Subdomain
Irctc : Domain
.co.in : Top Level Domain (TLD)

https://www.allegro.pl/

Https : Protocol

Www   : Subdomain
Allegro : Domain
.pl   : Top Level Domain (TLD)

https://www.johnlewispartnership.co.uk/

Https   : Protocol
Www   : Subdomain
Johnlewispartnership : Domain
.co.uk   : Top Level
                                               Domain (TLD)

https://www.uidai.gov.in/

Https   : Protocol
Www   : Subdomain
Uidai   : Domain
.gov.in : Top Level Domain (TLD)

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Question:2

What is HTTPS/SSL Update?

Answer:

What is HTTPS?

➔ **HTTPS** stands for **Hyper Text Transfer Protocol Secure.**

➔ It is the **secure version of HTTP ,** the protocol used to load web pages.

➔ It **encrypts** the data sent between your browser and the website.

➔ This prevents hackers from seeing or altering the information (like password, credit card, numbers, etc.)

It uses **SSL** or **TLS** encryption (**TLS** is a new version of **SSL**).

What is SSL (and TLS)?

➔ SSL stands for Secure Sockets Layer- it's a **security protocol** that encrypt data.

➔ SSL is used by https to keep your internet connection safe.

➔ It ensures the integrity, confidentiality, and authentication of data.

➔ TLS (Transport Layer Security) is the newer, more secure version of SSL- most modern websites now use TLC, though people still say "SSL" informally.

What is an SSL/HTTPS Update?

An SSL or HTTPS update refers to:

1. Installing or Renewing an SSL certificate on website.

2. Upgrading from HTTP to HTTPS to make the site secure.

3. Updating the SSL/TLS version to a more secure one (eg: moving from TLS 1.0 to TLS 1.3).

4. Fixing vulnerabilities or miscofigurations in SSL/TLS settings.

Why it matters?

- Protect users' data.

- Build trust with visitors.

- Improves SEO (Google prefers HTTPS sites.)

- Is required for most modern browsers (HTTP sites may show as "Not Secure").

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Question:3

List out 10 famous browsers used worldwide.

Answer:

  1. **Google Chrome**   **:**   63%

2. **Apple Safari** : 18%

3. **Microsoft Edge** : 4%

4. **Mozilla Firefox** : 3%

5. **Samsung Internet** : 2.5%

6. **Opera** : 1.5%

7. **UC Browser** : 0.6%

8. **Brave** : 0.5%

9. **Vivaldi** : <0.1%

10. **QQ browser** : <0.1%

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