## Home Assignment - 3

i) Define destagram and discuss its significance A) \* A datagram refers to a self-contained, independent

unit of data that is transmitted over a network. Datagrams are used to send deta blu different modes on a network, such as computers or servers. \* A destagram typically consists of a header and a

Pay load.

\* The header contains information such as the Source and destination addresses, protocol type and packet length.

\* The play load contains information the actual

dute being transmitted.

Differentiate SMTP AND SNMP.

For ture

SMITP

purpose

sending & receiving email messages

Fuetionality

Email message transmission and delivery

communication

Between mail server for email transfor

SNMP

managing and mo intain network devices.

> Exchange of namagement information blw devices and console maragement. Blw networkderics La management

System for monitoring. Port Number

port 25, port 587

Upp ports 161,162

Common usage

1

Email communication

Network mointoring and management.

3) Illustrate the architecture of www.

1. Weris Browser:

where users interact with the web. It saw, requests for web.

2. web server:

thosts websites and responds to requests from user browsers.

3. Internet:

The network that connects browsen & web servers, facilitating data exchange.

4. Database:

Stores and retrives della from websites, providing dynamic contact.

I A user's browser sends a request to a web server for a web page, and the server responds by delivering the webpage, creating a seamless internet experience.

- 4) List out all the protocols in Application layer.
- A) 1. HTTP: loads web pages in your browser.
  - 2. HTTPS: Secures web page Communication.
  - 3. FTP: Moves files blu devices.
  - 4. SMTP: Sends emails.
  - 5. pops: Gets emails to your device.
  - 6. [MAP: Manages email on the website address.
  - 7. DMS: converts names to the server.
  - 8. Telnet: Remote control for computers.
  - 9. SNMP: Manages network devices.
  - 10. DHEP: Assigns IP address.
  - 11. SSH: Secure remote access.
- f) Analyze the terms TELENT, FTP & POP3
- A) TELNET:
  - \* Funkon: Remote terminal access.
  - \* strengths: STMple, widely compatible.
  - secure versions like SFTP.
  - PoBy "
  - \* Function: Retrieving emails from a server to a client.
  - \* strength = simple, widely used.

\* weakness: Downloads entire mailbox, doesn't keep emails on server.

## FTP:

\* function: file transfer blu computers.

\* strength: reliable efficient for large files.

\* weakness: can be Slow for individual files.