What is Network?

- A network is a group of Connected, Communicating devices. An internet is two or more networks that can Communicate with each other.
- It connects millions of computers, websites and servers.
- emails, photos, videos, messages to a uger.
- The internet is an infrastructure

- TCP/IP protocol & . [1] Domain Name System (DIVS)

The + CP 4 TP were standardied in 1983, leading to the term TCP (TP) which became the foundation of the Internet,

- WWW Fim - Beoners Lee, website
- Broadband & social Media

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- Mobile Internet & the Internet of Things (IOT)

History of Internet?

- The idea of a global communication network can be traced back to the 1960s of MIT proposed the idea of a "Galactic Network" of Computers that could communicate with each other.
- Concept of packet-switching - RAND corporation
- Birth of ARPANET
- Development & Expansion ARPAINET, funded by the U.S. Department of Defense was est.

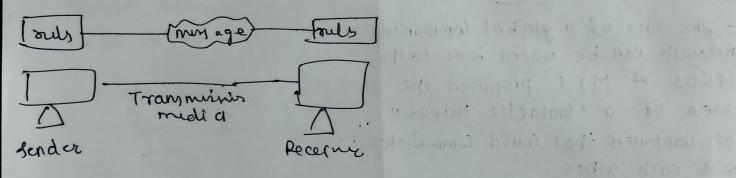
Protocols and Standards.

- computer networks are dependent on protocols and standards which plays a vital role, which enables communication between different devices and systems with one another,

(1) boofocol? ?-

In order to make communication success ful between devices, some order and procedures should be agreed upon at the Bending & receiving ends of the system.

- such rules are called as protocols



Syntax; format of Data semantics: Muaning of each be ction of bits

Firning; When should be sent & how fast it can be sent,

(2) Standards: -

Guidelines to manufactures, vendors and other service providers

There are two types: -De facto: -Not approved but widely used. Est. originally by manufacturers

De jure :recognized body.

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Concept of packet twittening

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Standards organizations

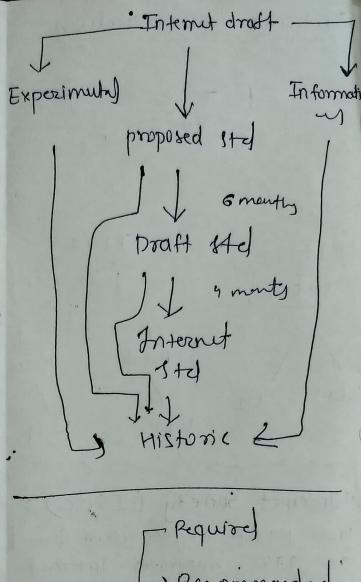
- standards are developed through the cooperation of standards creation committees, formum, & government regulatory agencies.

Internet Stds

- An internet std is a thoroughly tested specification. There is a storict procedure by which a specification attains Internet std status.
- A specification begins as an Internet draft, working do current with no official status & a SIX-month
- A draft may be published as a Request for comment.

 (RFC)

Maturity Louls Requirement Levels



Required

Required

Required

Required

Required

Required

Recommended

Required

Required

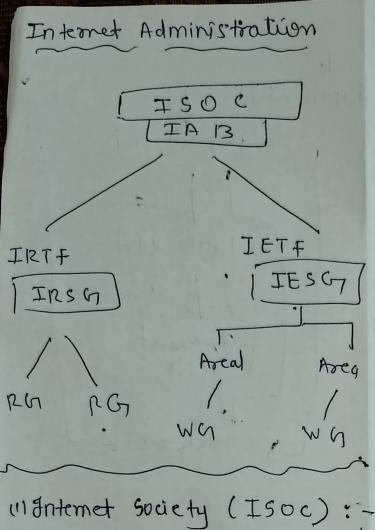
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- Non-profit organization formed in 1992, supports internet std process
- (2) Internet Architecture Board (IAB): -

Fechnical advisor to Isoc

(3) Internet Engg. Javk force (IETF)

Identify operationed problems and propose the solutions.

force (IRTF)

formum of working groups

forum on long term

research.

(5) Internet Assigned Numbers Authority (FANA) perponsible for pomain namo es addornes.

(6) NIC (Network
Information Center)
Pusponsible for Willeting
& distoisheding information
about TCPITP protocols

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