

The Internet: The Advanced Research Projects Agency Network (ARPANET) was an early packet switching network and the first network to implement the protocol suite TCP/IP. Both technology became the technical foundation of the internet.

"Internet is the set of rules of network"

Protocols & Standards: protocol is a set of rules that govern data communications. It represents an agreement between the communicating devices.

- * Syntax
- * Semantics
- * Timing

An association of organizations, governments, manufacturers and users form the standards organizations and are responsible for developing, coordinating and maintaining the standards. The internet

is that all data Communication equipment manufacturers and users comply with these standards. The primary standards organization for data Communication are:

* International Standard Organization (ISO) *

ISO is the international organization for standardization on a wide range of subjects. It is comprised mainly of members from the standards committee of various governments throughout the world. It is even responsible for developing models which provides high level of system compatibility, quality enhancement, improved productivity and reduced costs. The ISO is also responsible for endorsing and coordinating the work of the other standards organizations.

* International Telecommunications Union - Telecommunication Sector (ITU-T) *

ITU-T is one of the four permanent parts of the International Telecommunications Union based in Geneva, Switzerland. It has developed three sets of specifications: The V Series for modern interfacing and data transmission over telephone lines, the X Series for data transmission over public digital networks, email and directory ~~Series~~ Services; the I and Q Series for Integrated Services Digital Network (ISDN) and its extension Broadband ISDN.

* Institute of Electrical and Electronics Engineers (IEEE) *

IEEE is an International Professional organization founded in United States and is Comprised of electronics, Computer and Communications engineers. It is currently the world's largest Professional Society with over 200,000 members. It develops Communication and information processing standards with the underlying goal of advancing theory, creativity, and product quality in any field related to electrical engineering.

* American National Standards Institute (ANSI) *

ANSI is the official Standards agency for the United States and is the U.S. voting representative for the ISO. ANSI is a completely private, non-profit organization Comprised of equipment manufacturers and users of data processing equipment and services. ANSI membership is Comprised of people from Professional Societies, industry associations, governmental and regulatory bodies, and Consumer goods.

* Electronics Industry Association (EIA) *

EIA is a non-profit U.S. trade association that establishes and recommends industrial

study time

Subject _____

Date: 13/09/2020

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Standards. EIA activities include Standards development, increasing public awareness, and lobbying and it is responsible for developing the RS (Recommended Standard) Series of Standards for data and Communications.