

# Computer Networks

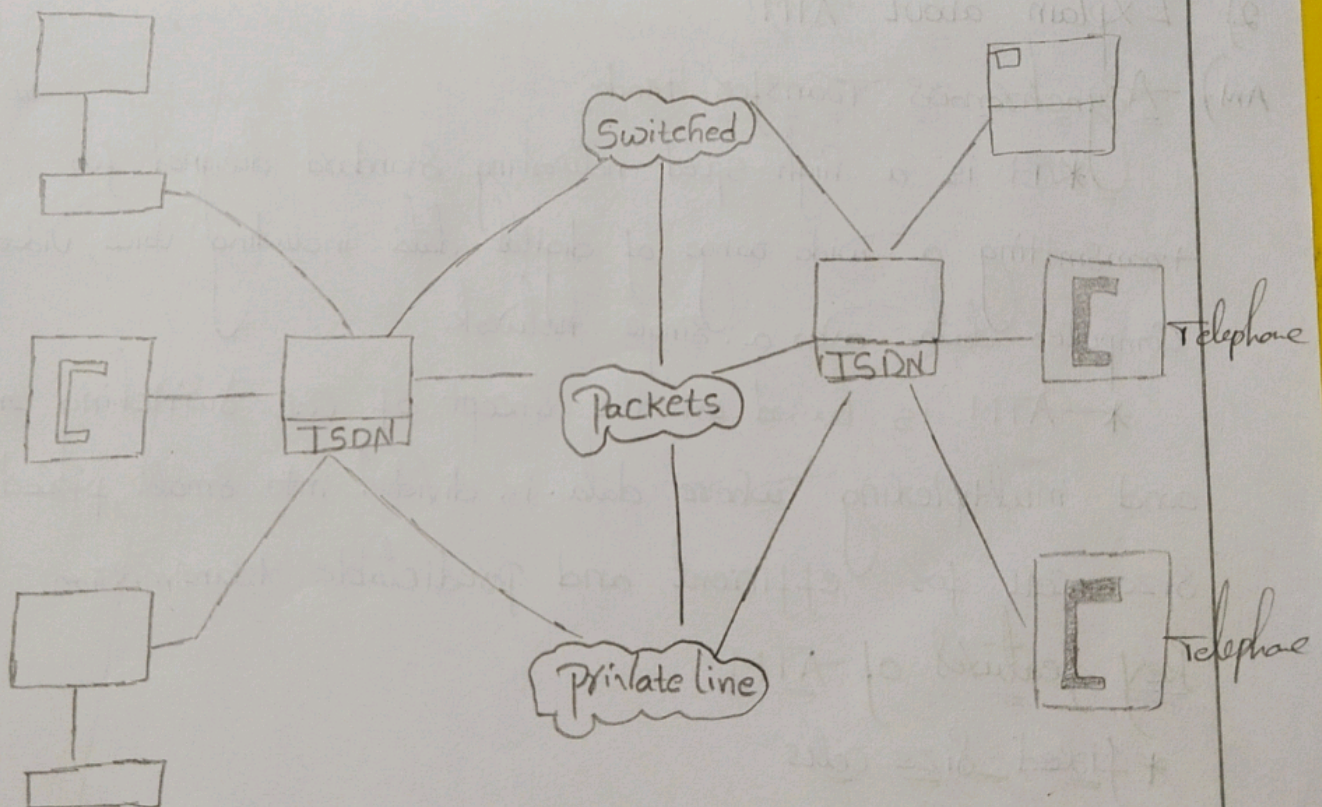
## Home Assignment - I

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1.) Explain about ISDN?

Ans) ISDN is known as Integrated Services Digital Sec:- C Network) is a digital telecommunication networks that provide a single, highspeed, end to end digital connection for voice data and images transmissions.



Key features and benefits of ISDN:-

Integrated Services

Higher Bandwidth

Digital transmission

Flexible Connectivity

ISDN played a crucial role in Computer networking by providing a reliable and high speed connection for accessing the



internet, Connecting to remote networks.

Decline of ISDN:-

- \* Broadband Internet

- \* Technological Advancements

- \* Legacy Technology.

\* ISDN may no longer be a mainstream technology, it played a significant role in development of modern computer networks.

2) Explain about ATM?

Ans) Asynchronous Transfer Mode:-

- \* It is a high-speed networking standard designed for transmitting a wide range of digital data including voice, video & computer data over a single network.

- \* ATM is based on the concept of cell switching and multiplexing where data is divided into small, fixed size cell for efficient and predictable transmission.

Key features of ATM:-

- \* fixed-size cells:-

- \* ATM Uses small, fixed-size cells of 53 bytes.

- \* The fixed cell size simplifies hardware design and enables fast delivery, fast switching

- \* High-speed transmission:- ATM support high data rates, making it suitable for both local and wide-area networks.



### Quality of Service:-

- \* ATM provides different levels of QoS to accommodate various types of traffic such as real time voice, video.

### Scalability:-

- \* The architecture of ATM is scalable, supporting a range of speeds and network sizes

### Asynchronous Transmission:-

- \* Cells are transmitted asynchronously relative to one another, allowing efficient use of network resources.