

# ISCL

Data: -

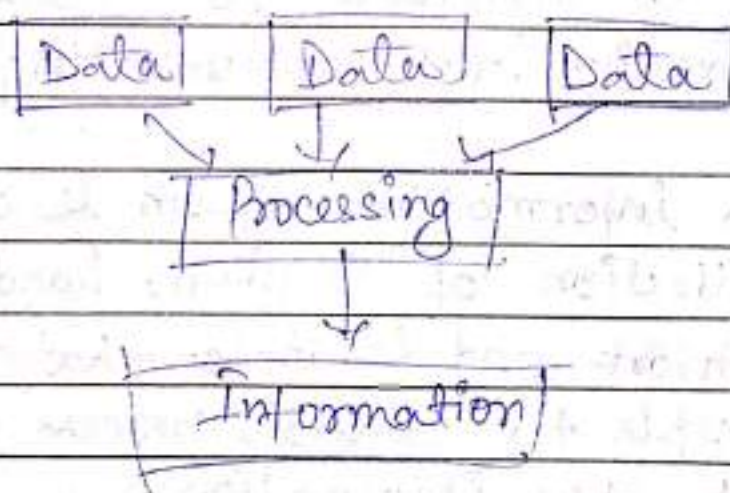
Raw facts & figures are known as data.

OR Unprocessed information is known as data.

Information: -

Data after processing is known as information.

OR Processed data is known as information.



System: - A system is a set of components (sub-system) that operate together to achieve certain objective or Goals.

Imp

## Information System:-

An information system is a system that accept data as input, process them and provide information as output.

- An information system is an organized system for the collection organization storage and communication of information.
- An information system is a group of components that interact to produce information.
- An information system is an integrated set of components for collecting, storing, processing and communicating information.
- An information system is an organized collection of human, hardware software, network and database that help the people to control, process and communicate the information.
- An information are interrelated components working together to collect, process, store and provide information to support decision making; Co-ordination, control and analysis in an organization.

- Business firm and other organisation use I.S. to manage their operation supplied services and compete in market place.
- Government uses I.S. to provide basic services to their citizen and keep records of their citizen.
- Individuals use I.S. to study, shop, bank & investment.
- Here we can see that these definition focus on two different ways of describing IS :-
  - The components that make an information system.
  - The role that those components play in an organization.

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### History of Information System:-

- The mainframe era:- from the late 1950s through the 1960s computers are used for information SIs but these computers are very large in size (Room sized) and very costly the main work of these devices was to organize and store large volume of information only large business organization Universities and government agency can afford them.
- In 1960s the manufacturing resource planning (MRP) SIs were introduced this SIs runs on mainframe computer.

IBM (International Business Machines) became a better mainframe company. that provide later h/w & s/w at cheaper rate.

→ PC revolution:-

In 1975 first micro computer came in market it is smallest in size and better in performance after this lot of companies started making micro computer. Some important micro computer of that time was Apple II, IBM PC etc. these

computers are used for word processing, spreadsheet and database. Computers of this generation were not connected to network.

4. Client-Server Architecture.

In 1980's there is a need to connect computer with internet each other to better collaborate with each other and share resources with each other. The network architecture used for this was known as Client-Server Architecture.

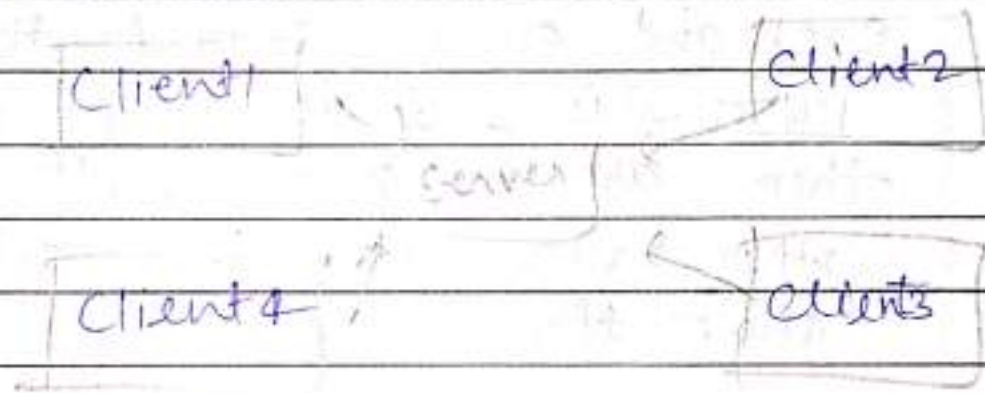


fig: Client-Server Architecture

5. Web and E-Commerce:- After the development of WWW & E-commerce many organization such as Universities, business, government agency, researcher etc, start using internet.

More & more organizations where connected with internet for information sharing.

→ Latest Approach of Information S/Is:-

Now a days Information System become very effective and efficient.

In past decades the importance of Information system increases rapidly.

Now we have best hardware and software available for creating information system.

Now a days almost each and every organizations uses information system and all of them are connected with each other via network for better information sharing.

The In ✓ Component of Information System:-

There are five major components of information system:-

- i) Hardware
- ii) Software
- iii) Data
- iv) People
- v) Process-

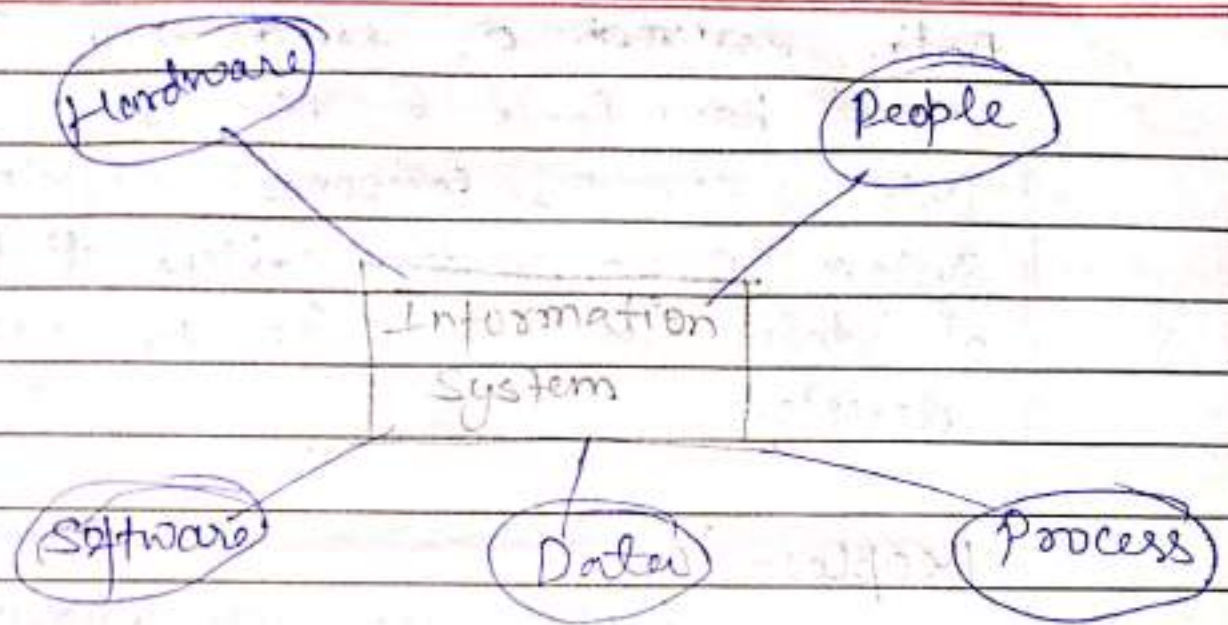


fig: Component of I.S.

→ **Hardware:-** Hardware is the component of information system which we can see and touch. Hardware are physical component of information system.

e.g:- Mouse, keyboard, CPU, harddisk, etc.

→ **Software:-** Software is the component of information system which we can't see and touch. Software is the set of instruction that tells the hardware what to do.

e.g. Operating System (System Software)

Ms-Excel

Ms-Access

MySQL

Oracle, etc

## - Dada-

Raw facts & figures are data. Data is the key component of information system. Organization collect all times of data and use it to make decision.

## → People:-

People are those who work for information system. The front line help its workers, the system analyst, the programmer, the chief information officer all are the part of an information system.

## → Process:-

Process is the last component of an information system in case of process several step and process are taken to achieve our desire, outcome or goal.

## Types of Information System:-

1. Transaction Processing System
2. Management Information System
3. Decision Support System
4. Executive Information System.



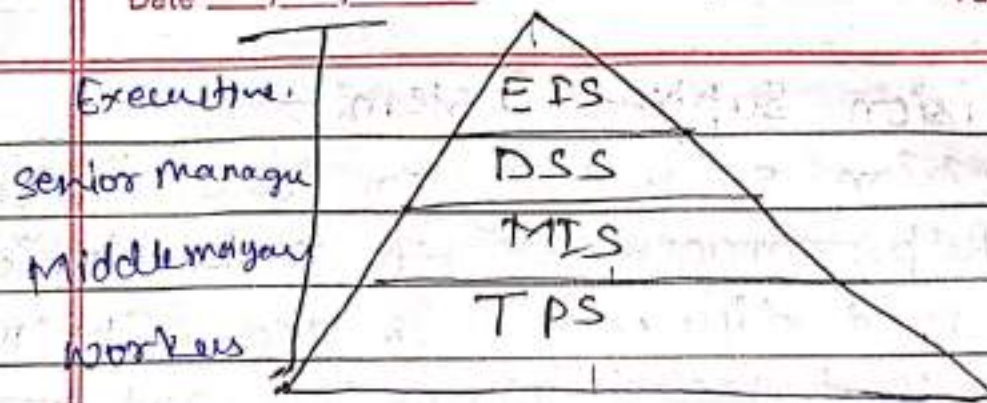


fig: Type of I.S.

### Transaction Processing System:-

Transaction processing System are used to record day by day business transaction the organization a TPS can be defined as a system that store maintain update and retrieve transaction data. e.g. The I.S that sales purchase inventory etc.

### Management Information System:-

Management information system are used by managers to monitor the organization current status. MIS are specially developed to support planning controlling and decision making for managers.

### Decision Support System:-

Decision Support System are designed to help management to make decisions. DSS used different tools and techniques to collect useful information and provide best option for organization.

### Executive Information System:-

Executive Information System is an extension of DSS that helps in decision making at the top level of an organization. an EIS is a DSS used to assist senior executive in process of decision making.

EIS is used to monitor performance of organization as well as identify the opportunities and problems.

### Need and Importance of Information System:-

There are the following need & importance of I.S:-

- Computers are essential today we check our emails with find answer for question watch media, use banking services and more.