

INFORMATION COMMUNICATION TECHNOLOGY

- Information system
- What is computer => computer is an electronic device that can accept, store and process data under the control of a set of instructions.
- What is an information system=> A system is a set of related parts that operate together to perform a specific function
- Information systems like all other system, are assembled from parts or components

Some applications of ICT

- At the heart of an organization is information and how it is used.
- The purpose of an organization is to perform a service or deliver a product
- Information whether computer based or not has to flow within an organization in such a way that will help managers and the organization achieve their goals

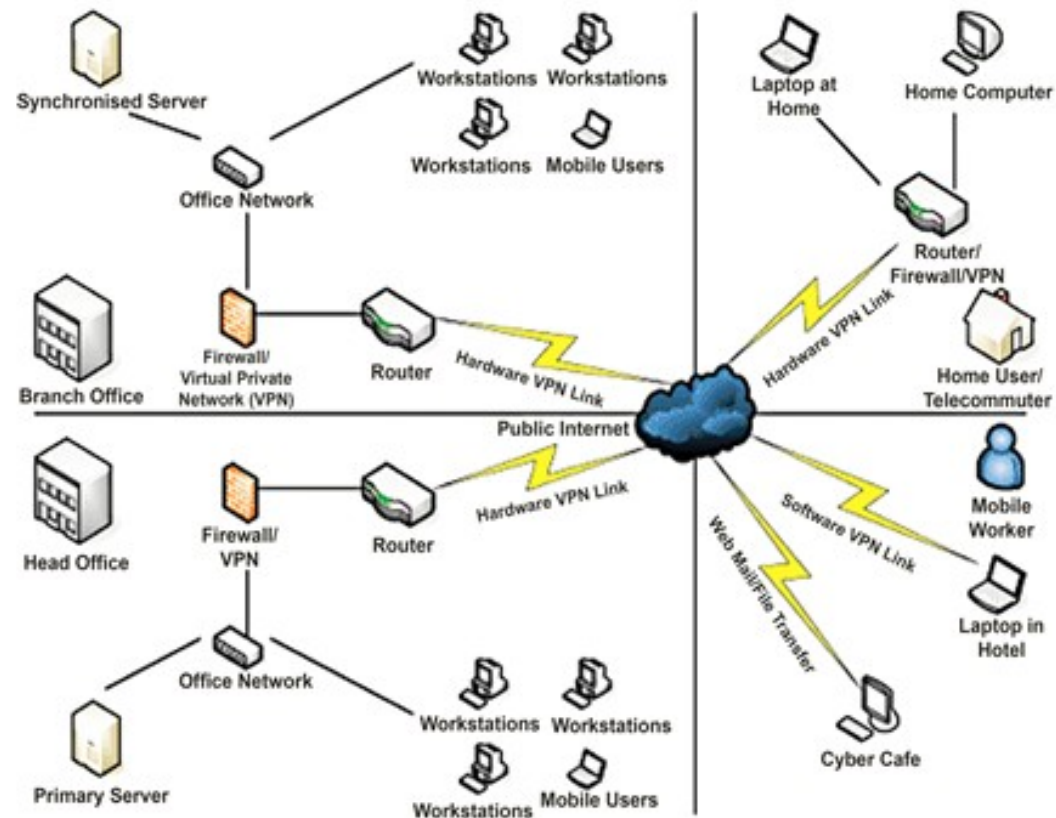


Fig. 1.3: Network society—sharing information

ICT has a large number of applications in different sectors of life. Let us discuss some of these application

- **Home** => when your computer is connected to a CD-ROM drive, encyclopedic information, movies and animations are instantly available
- When your computer is connected to the phone line, you can visit your community or other parts of the world
- Sales catalogues are now being computerized and many catalogues are even put on the web so you can do online shopping. With an internet connection, you can read the newspaper
- **Office** => ICTs are everywhere and offices are using them in newer ways, unthought of even a decade ago

The ICTs are integrated into offices in the following ways

- i) Transaction processing
- ii) Home- based workers
- iii) Desktop publishing
- iv) Financial analysis
- v) Product design
- vi) Architectural walk-through
- vii) Factories etc.

Factory

- ICTs have a major impact in industries where products are designed and manufactured
- Computer Aided Design (CAD) is used to design and develop products
- Computer Aided Manufacturing (CAM) is used to manufacture them

Transport

- In the transport sector, ICT applications are used to improve road, air and rail transportation
- ICT applications are noticeable in air traffic control, monitoring of freight and the day to day transportation system
- Example we can book air tickets or railway tickets online
- Pilots are trained on software, which simulates flying
- The air traffic control and rail signals are also among ICT applications



Communications

- This has been one of the most recognized uses of the ICTs
- Various communication technologies, ranging from broadcasting to telecommunications and to the internet are playing effective roles in the acquisition and sharing information
- Almost all mobile phone have software embedded in them
- Satellites are commonly used in ICTs they may simply relay signals from one point to another, eliminating the need for wires between two locations

- They also broadcast TV and even internet signals that can be picked up even by small dish antennae



Education/training

- The education sector is arguably one major area in which ICTs are playing a remarkable role
- Computers are serving as the best friend to both the teacher and the students
- In schools computers are increasingly being used to teach ICT courses like the ones you are taking
- An e-learning software supplements the knowledge you get by studying books

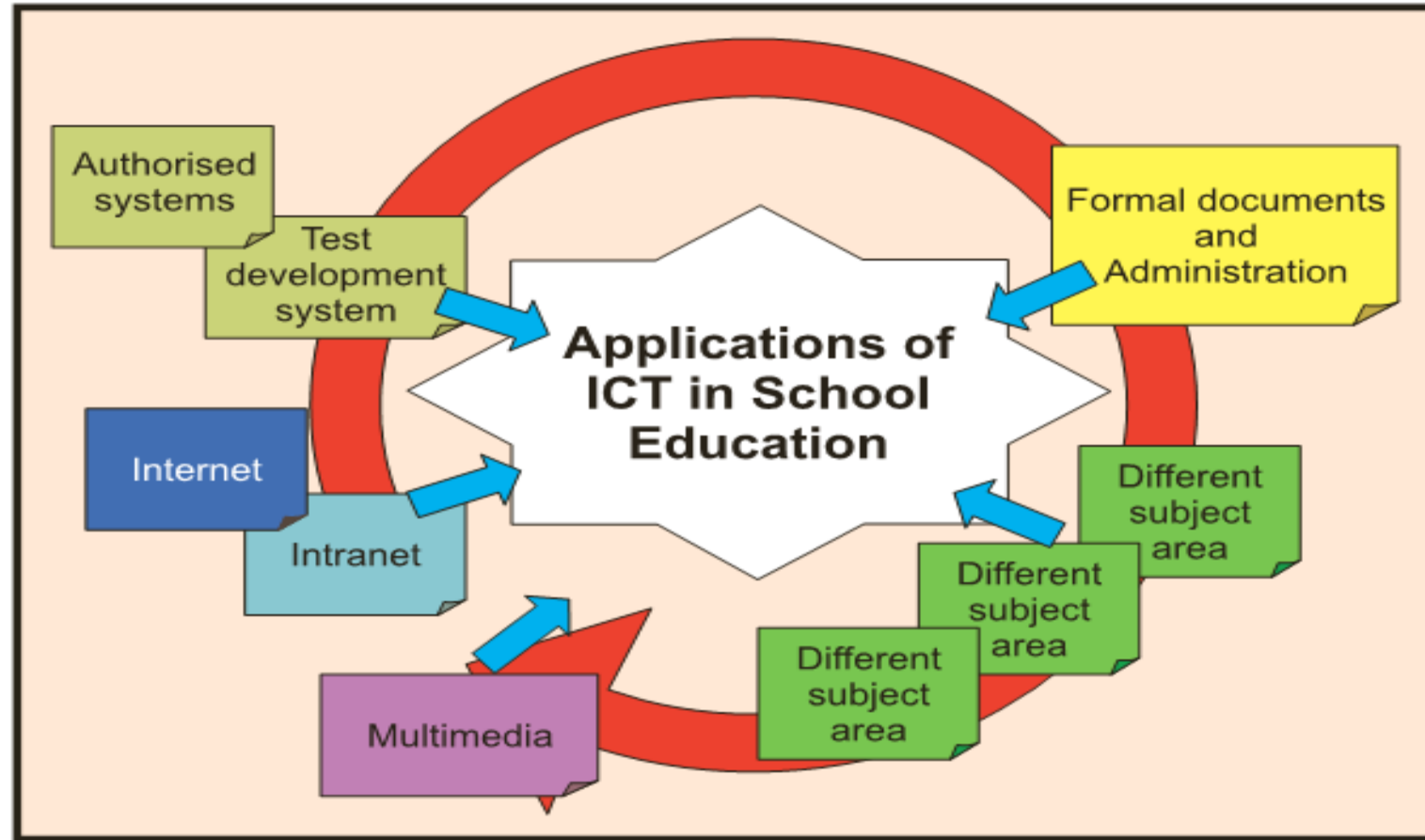


Fig. 1.9: Applications of ICT in School Education

questions

ANSWER

Q1.define the term information.

Q2.Explain how ICT is applicable in factory.

Q3.Mention how ICTs are integrated into office.

Fill in the blank space

Q4. An _____ software supplements the knowledge you get by studying books and considered as one application of ICT in Education.