Uses of Computer in different Fields

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Use of Computer in Education

- ❑ The process of learning can be simplified more effectively with computers.
- ❑ There are numbers of methods in which educational institutions can use computer to educate the students.
- ❑ Many Computer based educational software are available for students.

Computer Based Training

- ▪ An interactive learning experience between learner and computer
- ▪ CBT are different programs
- ▪ These programs include text, graphics, sounds, audio and video lectures
- ▪ CBT is a low cost solution for educating people

Use of Computer in Education

Benefits of CBT

- The students can learn new skills at their own pace
- Training time can be reduced.
- Training materials are interactive and easy to learn.
- Planning and timing problems are reduced or eliminated.
- The skills can be taught at any time and at any place.
- It is very cost effective way to train a large number of students.
- Training videos and audios are available at affordable prices.

Use of Computer in Education

Computer Aided Learning

- Computer aided learning is the process of using information technology to help teaching

- To enhance the learning process.

- Use of computer can reduce the time that is spent on preparing teaching material.

- It can also reduce the administrative load of teaching and research.

- The use of multimedia projector and PowerPoint presentations has improved the quality of teaching.

- It has also helped the learning process.

Use of Computer in Education

Distance learning

- Distance Learning is a new learning methodology.
- Many institutes are providing distance learning programs.
- The student does not need to come to the institute.
- The institute provides the reading material and the student attends virtual classroom.
- In virtual classroom, the teacher delivers lecture at his own workplace.
- The student can attend the lecture at home by connecting to a network.
- The student can also ask questions to the teacher.

Use of Computer in Education

Online Examination

- The trend of online examination is becoming popular.
- Online examination is based on MCQs.
- Different examination like GRE, GMAT and CCNA are conducted online all over the world.
- The questions are marked by computer. It minimizes the chance of mistakes.
- It also enables to announce the result in time.

Onilne Education

- Many Website based institutions are offering degrees online by teaching online and by assesing students online.

Use of Computer In Industry

Computers are used to control manufacturing systems in industry.

Robots

- A Robot is an automatic programmable machine that moves and performs different tasks.

CAD

- In computer aided design, different objects are designed using computers.
- Engineers and Architects use it for their ease.

Simulation

- It is special type of computer model which recreates a system that does not exist in real world.
- A flight simulation,which is used to train pilots,how to deal with simulation that would be expensive and dangerous to practise using real aircraft.

Use of Computer in Medical Field

Computers are commonly used in laboratories,reseaches, monitoring and scanning.

Patient Monitoring

- Computers are used in hospitals to monitor the patient critically.

- Sensors are attached to the patients ,which detect changes in heart rate,pulse rate,blood pressure,breathing and brain activity.

- These systems can alert medical staff about any serious situations

- Computerized database systems are used to record patient history.

- Computerized database systems are also used to help in finding the match of patients who want to transplant their organs,such as kidnely liver or heart with suitable organs with donor.

Use of Computer in Medical Field

Diagnosis

- Sophisticated systems are used for tests like CT Scan, ECG, and other medical tests.

- Computers are also used to scan a patient body.

- The body scanner helps the docter to trace any tumor or cancer.

- The sacnner displays the image of bone and tissues structure on computer screen.

Use of Computer in E-Commerce

- Electronic Commerce is known as E-Commerce.

- It is the process of buying and selling of products or services over electronic systems such as internet and other computer networks.

- M-Commerce(Mobile)
- E-Mail
- E-Shoping
- E-Banking
- Video Conferencing

Use of Computer in Business

- The use of computer technology in business provides many facilities.

- Businessmen are using computers to interact with their customers anywhere in the world.

- Many business tasks are performed more quickly and efficiently.

- Computers also help them to reduce the overall cost of their business.

Computer can be used in business in the following ways:

Marketing

- Marketing is the process by which good are sold and purchased.

Use of Computer in Business

- The aim of Marketing is to acquire, retain and satisfy customers.

- An organization can use computers for marketing their products.

- Marketing applications provide information about the products to customers.

- Computer is also used to manage distribution system, advertising and selling activities.

- It can also be used in deciding pricing strategies.

- Companies can know more about their customers and their needs and requirements etc.

Use of Computer in Business

Banks

- The cheques are read by MICR (magnetic ink character recognition)
- Banks used mainframe computer to maintain their accounts.
- A customer can perform transactions by using ATM Machines and also by using credit cards.

Stock Exchange

- Brokers interconnected through data communications network.
- They submitt and recives their bids using computers.
- On the computers brokers match buyers with sellers
- In this way of trading neither trading floor not slips of paper are necessary.

Use of Computer in Business

Departmental stores

- People at the store level use bar cod readers for their ease.
- Security cameras are used in stores to monitor different operations.

Office Automation

- Advance computer technologies are used to perform various tasks in an office
- Document management system

Science & Technology

Analysis & Testing Of Data

- Scientists use computers to analyze collected data and test their hypotheses.

Exchanging Information

- Scientists use computers to exchange information with their colleagues.
- Different Researches all over the world can share their research with one another.

Use of Computer in Space Science

- Computers are playing an important role to explore the outer space.
- Computers are mostly used to collect space data, perform experiments and prepare results.
- Computers are used to operate certain machines and robots to collect information from space and send it back on earth.

Science & Technology

☐ Scientists may use computers for simulation of complex events.

☐ They can use computers to predict about the affects of earthquake on buildings in a particular area.

☐ Computer are used to know the effects of rapid population increase on weather conditions.

☐ Computer can also provide a solution to many problems.

☐ Computers are used for predicting climate patterns

☐ Computers are used for chemical compositions of products to ensure safe operation and consumption.

Uses of Computer at Home

Home budget

- Computer can be used to manage Home Budget.
- You can easily calculate your expenses and income.
- There are also specialize software that can manage your income and expenses and generate some cool reports.

Working from home

- People can manage the office work at home.
- The owner of a company can check the work of the employees from home.
- He can control his office while sitting at home
- Peoples can learn many skills at home

Entertainment & Information

Entertainment

- People can find entertainment on the internet.
- They can watch movies, listen to songs, and watch videos download different stuff.
- They can also watch live matches on the internet.

Information

- People can find any type of information on the internet.
- Educational and informative websites are available to download books, tutorials etc. to improve their knowledge and learn new things.

Entertainment & Information

Chatting & Social Media

- People can chat with friends and family on the internet using different software like Skype etc.
- One can interact with friends over social media websites like Facebook, Twitter & Google.
- They can also share photos and videos with friends

Computer Games

- An important use of computers at home is playing games.
- Different types of games are available.
- These games are a source of entertainment and recreation.
- Many games are available that are specially developed to improve your mental capability and thinking power.