MULTIMEDIA AND ITS APPLICATION

MULTIMEDIA

Multimedia is a technology which stores data as text, photo, animation, music, video, etc. and gives the method to collect and modify the data as required.

Multimedia System: It is a system which has capability to integrate two or more types of media such as text, graphics, audio, video and animation.

Multimedia Technology: Multimedia technology allows storing data and information for further reference. CD-ROM is a cheap, durable and portable storage media used to store data and information in the multimedia technology.

Advantages of multimedia

It can be used to help the student and teacher to teach as well as to learn the given topics easily.
It can be used to spread knowledge all over the world at a low cost.
It can be used for any subjects and for anyone.
Multimedia system is generally very interactive. So, it is interesting to use.

Disadvantages of Multimedia

It is expensive to produce the multimedia system.
It is expensive to set up multimedia contents.
It needs well-trained manpower to create and use it.

Components of Multimedia

The following are the different components used in multimedia system:

Text: It is the primary component of multimedia. Most of the information can be presented with the help of text. We can be emphasized the text by using different fonts, colors, styles etc.
Graphics: A digital representation of non-text information such as drawing, photographs etc are known as graphics. The graphic medium can be used with text medium.
Audio: Audio is one of the important components of multimedia. It is music, speech or any other sound. It is normally combined with animation medium.
Video: The effective medium for presenting information is video. It presents the moving images. It displayed the sequence of slightly varied pictures at the speed of 15-30 frames per second.
Animation: The animation medium presents the sequence of still images of artwork at a rapid speed that looks like the image is moving.

APPLICATION OF MULTIMEDIA

Multimedia technology is used in many different areas.

Some of the areas where multimedia are used are listed below:

1. Multimedia in Education field

   Multimedia is used to instruct as a master (guide) because nowadays, multimedia CD are used instead of textbooks. Knowledge can be easily obtained by using multimedia CD in computer because multimedia CD includes text, pictures, sound and film which helps the students to understand easily and clearly than the textbooks and is cheaper than going to schools.

2. Multimedia in Business

   Multimedia is used in business for training employees, presenting sales, educating customers etc. It helps for the promotion of business and new products.

3. Multimedia in Entertainment

   Multimedia is mostly used in games. Text, audio, images and animations are mostly used in computer games. The use of multimedia in games made possible to make innovative and interactive games. It is also used in movies for entertainment.

4. Multimedia in Medicine

   The use of multimedia in medicine is increasing rapidly. In medicine, doctors can be trained by looking at a virtual surgery (Simulators). Using multimedia, they can simulate how the human body is affected by diseases spread by viruses and bacteria and then develop techniques to develop it.

5. Multimedia in Research

   We use multimedia to discuss or to make prototype about the invention and theory of different people. We can also use multimedia to investigate through the materials available on the internet.

TOOLS FOR MULTIMEDIA

Different hardware and software required to use multimedia system are as follows:

CPU having capacity to process multimedia
Color Monitor
Sound card, speakers, headphones along with microphone
DVD drive and external hard disk with high capacity
Multimedia projector
Scanner is required to scan document and convert them into digital data
Software required to open multimedia such as Photoshop, PowerPoint etc.

How to Create Document in Multimedia?

In the multimedia system, we can use more than one audio, video, image etc. We can create a document by using MS PowerPoint.

Steps to create documents using MS PowerPoint:

Step 1: Open Microsoft PowerPoint
Step 2: Choose slide layout according to your need
Step 3: Type text according to your will
Step 4: Click on insert tab and select picture button
Step 5: Insert picture as required
Step 6: If video file is to be uploaded, click on insert tab and select movie button
Step 7: Upload video as required
Step 8: Press on F5 button for slide show