

(12)

(a) Advantage: Computerised systems are much more efficient at storing and vetrieving data / information than their paper based counterpants. This is because all data is electronically stored and does not have to be physically stored or sorted. Disadvantage: Computerised systems way men a high recovery cost. If there is a failure on in some component of the syste, unless a backup has heen monde, all dosts or partial data loss may occur This can mean that the centre is mable to operate for a period of time or they have to manually re-ent-M down that was stored in the system (b) There are several issues melating to the storage, netwer and display at high resolution images in this information The storage at high quality inverges creates large storage overheads and the point where the darks is actual stored. The server or main computer depending on the architecture employed would used to have large mass storage device available to store the



images. The process of backing up the data also becomes a bigger problem because in order to bachys the large volume at graphical darta, a high capacity backup unit of some kind is required. The transport layer is also an important factor in the retrieval of the images for display Although the server may have high speed (SCSI VItam 160 Mb/sec for example) storage devices that have a high capacity, it can only be accessed annual across the natural as fast as the network runs. As a bare minimum, a 100 BaseTX network would be required to provide a reasonable speed transport for these large files. 100 Mbit Ethernet at full duplex (100 Base TX) provides transfer rates of 1-20 pt Mb/s , with any speed above 10 Mb/s being a bount of dates when little other network traffic is occurring. The workstations that are used to access the data would need extra processing power in order to wender the images for desplay due to the overheads created by high resolution image. They would need extra LAM to assist the CPU in storage and



BOARDOF STUDIES
displaying the image due to the complexity of
operations that are performed in the CR and
video processor on the video output device
who rendering - high quality image.
If one at these factors is not considered, it would
cause the syste to function very slowly and become
(c) The doctors and receptionists would have different views
of the data because they both require different aspects
at the information stored about each partient.
The receptionist only needs their personal detacts such as
address, contact into, health care number etc so they can
perform their administration tasks.
The doctors require all information about previous consultations
previous illuenes and for injuries to assist them when meding
diagnosis and prescribing treatment to the patient.