Q No 1:(a)

Ans:(a):**System software:**

> Def: System software is a software which runs computer hardware and provide plateform to application software's to work.In simple system software is a program which interact computer hardware and user .

> For example. Windows,Mac, Network driver.

Importance of system software :

> ⟹ System software is essential component of a computer system.Without any system software we cannot take any work from computer hardware.
>
> ⟹ System software take's work from hardware to use it according to user needs.
>
> ⟹ System software is responsible to start computer and make computer hardware useable for users.Different drivers e.g: Sond driver,Network driver are system softwares which enable sound cards ,network cards for use.
>
> ⟹ Without system software CPU is just empty metal box.After installing of some type system software we can use computer perfectly.

How system software helps users:

> System software provides user to take work form computer hardware.Without system software it is too difficult to interact eith computer hardware.So system software is way for user to work with hardware.

Q No 1 (b):

Ans:(b): Open source software:

> Def: Open source software is a software which is available in internet and also source code of software is avilible.

Benefits of open sources software:

> ⟹ Its source code is also avilible to user hence user can modify it according to their needs.
>
> ⟹ Cost of open source software is less.
>
> ⟹ User can easily add more features which he/She want.

$\Rightarrow$ Always open for changes so it is more flexible.

$\Rightarrow$ User can secure it according to his use.

QNo 2 (a)

Ans:Transmission media:

When data is transferring from one device to another device during this the data transfer through some sources which called transmission media.

Two types:

Guided media:

Guided media is a type of transmission during which some physical wire is used for transmission is called guided media.Guided media transfer data through high speed .Upto several Gbs.data are more sources in Guided media.

There are three main types.

$\Rightarrow$ Twisste pair cable.

$\Rightarrow$ Coaxial cable

$\Rightarrow$ Fibre optic.

UnGuided media Transmission :

The transmission media during which no physical wire used is called unguided media transmission.The speed of transmission is less than that of guided media.The speed is from Mbs to a few Gbs.Not much secure less speed.

Types:

$\Rightarrow$ Radio waves

$\Rightarrow$ Micro waves

$\Rightarrow$ Infrared.

QNo 2:(B)

Ans:(b)

Difference between magnetic storage and optical storages:

Mangnetic storage:	**Optical storage:**
Magnetic storage use magnetic for storage and	Use light for storing and refriving of data.the

processing of data.The working of magnetic disk is that the mechanical arm becomes the tool use handle to read data.can be effected by magnetic field less speed to write data.Easy to lose. eg:Magnetic tape,Floppy disk	working of optical disk such that a lesser is used to read the stored information in the dots and convert it into electrical signals.No effect of magnetic field .Speed is high to write or refrive data.Not easy to lose.eg:CD,DVD

Q No 3:

Ans:

Internet: That the internet is the network of the computer .Whcih connect different kinds of computers all over the work.This is common mechanism of the network shareing for adding computer.communication between the computer and network.

TelNet:Stands for Telecommunication Network.

Telnet is application protocol used for internet Also in local area network to provide bidirectional interactive communication using virtual terminal connection.

Develop in 1969 TelNet provides acces to a commond line interface on a remote host.Telnet is used where high security is needed.

FTP:

Stand for File transfer protocol.

File transfer protocol is standared internet protocol for transmitting databetween computers in the internet using TCP/IP connections.It is client server protocols.in which clients asks for some data and server which is remote provides the desired data.

A short review of any software designing on TelNet and FTP:

The FTP/TelNet/SSH category includes a variety of software designed to establish and maintain communication with other systems as well as to uplode and dwonlod files using FTP/TelNet protocols.This software can be used to control computers remotely,connet to virtual servers,configure network routers,administers websites etc;

Eg:Using FTP server

Bitvise SSh client, PuTTy.File Zilla server.

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