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Q1. (a) Discuss the importance of system software and how it helps users?

(b) Write a few benefits of open source software?

Ans:1.(A) **Systems software** includes operating **system** and the associated programs, which enable **systems** and computers to work. It provides the foundation for the infrastructure **software** that links and manages hardware, networks, and **software** together.

Application **software helps users** solve a particular problem or carry out a specific task. ... **System software** coordinates the activities and functions of hardware and **software**, and it controls the operations of computer hardware. A computer's operating **system** is an example of **system software**.

(b) Write a few benefits of open source software?

1. FLEXIBILITY AND AGILITY. ...
2. SPEED. ...
3. COST-EFFECTIVENESS. ...
4. ABILITY TO START SMALL. ...
5. SOLID INFORMATION SECURITY. ...
6. ATTRACT BETTER TALENT. ...
7. SHARE MAINTENANCE COSTS. ...
8. THE FUTURE.

Q2. (a) Explain different categories of transmission speed?

Magnetic storage devices use "read/write heads," electromagnets that detect (read) or change (write) the magnetization patterns on the disk. **Optical storage** devices use lasers to read the reflections **in the** disk or "burn" the data pattern into the disks.

(b) Differentiate between optical and magnetic storage?

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Q3. Based on the discussion related to internet and its services, explain TelNet and FTP service and write a short review of any software designed on TelNet and FTP ?

Ans:3 The **Internet** is a heterogeneous worldwide network consisting of a large number of host computers and local area networks. The **Internet** uses the TCP/IP suite of protocols. This allows the integration of a large number of different computers into one single network with highly efficient communication between them

TELNET (TELEcommunication Network) and **FTP** (File Transfer Protocol) both are the application layer protocol. They are connection oriented protocols as they create a connection between remote host and a server. AS name File Transfer Protocol, **FTP** is used for transferring the files from one system to another system. **Telnet** enables a client user to access the resources of a server remotely whereas **FTP** is used for copying a file from one to another machine. The **Telnet** protocol uses port number 23 for the connection. ... Conversely, in **FTP** the user need not log in to the remote machine.