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Paper : Computer Assignment

"Question No: 1"

Q¹: Discuss the importance of system software and how it helps users?

System Software

System software is a set of programs that control and manage the operations of computer hardware. It also helps application programs to execute correctly.

Software are designed to control the operation and extend the processing functionalities of a computer system e.g operating system, programming.

Importance of Software

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- (1) The economies of all developed nations are dependent on software.
- (2) More and more systems are software controlled.
- (3) Software engineering is concerned with theories, methods and tools for professional software development.
- (4) Expenditure on software represents a significant fraction of GNP in all developed countries.
- (5) Software costs often dominate computer system costs. The costs of software on a PC are often greater than the hardware cost.
- (6) Software costs more to maintain than to develop. For systems with a long life, maintenance costs may be several times development costs.
- (7) Software engineering is concerned with cost effective software development.

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Uses OF System Software

Security a critical issue on computer systems that are connected to the outside world, so most system software provides firewalls and virus checkers to keep out hackers and malicious programs. Support of the user interface, which is the way that humans communicate with the computer is another important system software function.

A user interface may take the form of a command line or may be a full-blown GUI (graphical user interface) that allows users to interact with windows, menus and buttons. System software is also responsible for managing network connections and providing file systems that utilize external storage.

Part # B

(b) Write a few benefits of Public Domain Software?

Public-Domain Software

↳ Public-Domain software is software available free or for a nominal charge from the bulletin boards or user-group libraries on the internet.

Basic objective is to popularize their software to as many users as possible. Users are encouraged to copy such software and try them out. Usually the creators share the software freely with other users.

Public-domain software is also referred to as freeware/shareware.

↳ Some of the public-Domain Softwar's are also for trial period.

↳ Another type of public-domain softwares becoming popular is those that come

with their source code. These software's are referred to as open source software. Usually open source software allows a user to download, view, modify and distribute modified source code to others. It must be remembered that not all open source software are free and not all free software is necessarily open source.

Question No # 2

* Differentiate between optical and magnetic speed

<u>Optical S.D</u>	<u>Magnetic S.D</u>
1) Stores data as patterned image.	Stores data in magnetic form.
2) Optical storage devices offer lesser capacity.	Magnetic storage devices offer much higher capacity.

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(3)	Requires LASER light to read and write data onto the disc	Doesn't require LASER heads to read and write data.
(4)	Slower data read and write	Faster data read and write.
(5)	Data on the disk will not be damaged by magnetic fields	Magnetic field can destroy the data stored on magnetic storage devices.
(6)	Optical storages can be readable, writable and re-writable.	Magnetic storage devices are always readable and re-writable.
(7)	Optical storage devices requires additional drives to function	Almost all magnetic storage devices comes with built-in drives.
(8)	Easy and safe to take around.	Not as safe as optical storage devices to take around.

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Part # B

* Explain different categories of transmission speed?

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Data Transmission Speed Category

⇒ These are the three categories of data transmission speed category.

(1) Narrowband:

Sub-voice grade channels in range from 45 to 300 baud. Mainly used for telegraph lines and low-speed terminals.

(2) Voiceband:

Voice grade channels with speed up to 9600 baud. Mainly used for ordinary telephone voice communication and slow γ_0 devices.

(3) Broadband:

High speed channels with speed up to 1 million baud or more. Mainly used for high-speed computer-to-computer communication or for simultaneous transmission of data.

“ Question No # 3 ”

Dissusions related to internet and its services, which service you think has been more useful in situation?

The internet is a global system of inter connect computer network, consists of millions of private, public, academic and business and government network. (Text of services most used).

Email:

Email is one of the

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most important, productive, fast and easy feature of internet.

Email is a virtual communication system, which is used to exchange the world.

In the present situation Email has very important role between the students in students and also between the students in teachers interaction.

Email is a formal and proper way of sharing the information, pictures, important documents within few seconds.

Advantages:

* Speedy :-

It is one of fastest way of sharing the required information in unchanged in formal way.

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* Convenience :-

Both the sender of receiver's convenience is taken into consideration by Email.

* No Physical Interaction :-

like other electronic feature Email provide the facility of no need to be present personally for delivering a message.

* Storage :-

Email also provide online facility of huge MB storage. Through which we can share our important data safely of protected. In which can be access anytime from anywhere.

* Disadvantages *

- (1) Not everyone has internet / email facility.
- (2) Not everyone has other's email address.

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- ③ Lack of proper verbal communication between the sender of receiver.
 - ④ Delivery/network issues can delay the process of communication.
 - ⑤ Email could be ignored or not answered when required.
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