

اساسيات تكنولوجيا المعلومات

قسم الشبكات

المرحلة الثانيه

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Combination Input and Output Devices

N. Combination Input and Output Devices •

1. Fax machines •

☒ Also known as Facsimile Transmission Machines, it's an older •
technology used to transmit a “picture” of a document. •

2. Multifunction Devices (MFD) aka All In One (AIO) devices •

☒ These devices combine the functions of a printer, scanner, copier, •
and fax into one unit. •

☒ The advantage is it can save cost over buying separate units, as •
well as space. •

☒ The disadvantage is the functionality may not be as good as •
separate machines, and if one goes bad, you may need to replace •
the whole device. •

Internet Telephone

Internet telephones typically connect to a system unit through a USB port and operate like a traditional telephone.

☒ Telephony, also known as Internet telephony, IP telephony and Voice Over IP (VoIP) – Note: IP = Internet Protocol uses the Internet rather than traditional communication lines to support voice communication.

☒ Convert analog voice into digital, and utilizes the Internet Protocol to send the digital signals.

☒ This technology is proving to be a popular, cost saving tool for both businesses and home users.

☒ Three popular approaches include:

o Computer to computer: allow users to place free long distance phone calls, e.g. MSN Explorer

o Computer to traditional telephone: users can call virtually any telephone user from the computer.

o Traditional telephone to traditional telephone: do not require a computer

☒ Internet supported calls may have lower sound quality.

Terminals

Older technology often used to connect to a mainframe or host/server computer. •

☐ Dumb terminals: only provide input and output to the host •

☐ Intelligent terminals (Smart terminals) can do some processing at the terminal – an example would be a PC hooked up to act as a terminal as well. Net PC (aka Net Personal Computer) is a low cost limited microcomputer with only a hard drive, sealed system unit and no expansion slots. •

Input and Output

- Network terminal (aka thin client or network computer) is a low cost alternative to an intelligent terminal. Most don't have storage capabilities, but are able to do some local processing. Sun Microsystems has tried to push this model of computing for years.
- ☐ Internet terminal (aka web terminal or web appliance) is designed to provide inexpensive, easy access to the Internet.

.Open-ended

a) Describe the most common types of keyboards. •

Traditional: •

Flexible: •

Ergonomic: •

Wireless: •

PDA: •

b) Describe the different types of pointing devices. •

Mouse (touch pad, track point/pointing stick): •

Joystick: •

Touch Screen: •

Light Pen: •

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**c) Discuss the advantages and disadvantages of the •
three basic designs for the mouse •**

☐ Mechanical: the standard mouse, it's cheap, reliable •

☐ Optical: little more expense, but doesn't require moving parts so •
the ball won't slip •