



Computer Maintenance and Upgrading

10 Hour - Part 2

Student Workbook

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Assignment 6 *Image Capture*

Describe the three types of scanner found in the CAI

	Scanner type	How does it work (Brief Description)
1)
2)
3)

Complete the table describing some of the common connectors for external devices

Port	Type of connector	Typical devices that use it
Mouse	Round 6-pin PS/2	Mouse
Keyboard		Keyboard
Monitor		Monitor
Serial		
Parallel	25-pin	
USB		
Joystick		
SCSI		
Network	RJ-45 (telephone jack) or round coax	Network

Assignment 7 *Printers*

Complete the table below to compare between printers

Printer Type	Printing Mechanism	Print Quality
Dot Matrix		
Inkjet		
Laser		

Write down the name of each of the steps involved in the laser printing process and a brief description of what happens at that stage:

- 1)
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- 2)
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- 3)
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- 4)
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- 5)
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- 6)
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Assignment 8 *Multimedia and Entertainment*

“You can view the text and graphics related to the program you are watching if you use a TV card which supports technology.”

Enhanced joysticks react to actions in the game by

You can use a speech recognition program to create documents by talking into a microphone instead of through your

Assignment 9 *Alternative Storage Devices*

Things you should consider when buying a backup tape drive.

- 1)
- 2)
- 3)

It is recommended you keep your backup disks away from the magnetic fields generated by your and

To ensure that all types of disks are supported by your DVD drive you are recommended to select

a drive.

Assignment 10 *Problem Solving:* *Selecting Computer Components*

Design brief (in your own words).

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Components list

Component (E = Essential Item for basic system)	Cost (\$ per unit)	Available
Processors		
Slot 1 – Pentium I Equivalent (E)	68.00	Now
Slot 1 – Pentium III Equivalent (E)	159.00	Now
Socket 7 – Pentium I Equivalent (E)	42.00	Now
Socket 7 – Pentium III Equivalent (E)	107.00	Undefined
Motherboards		
AT (3 ISA/ 1 PCI) (E)	20.00	Now
Micro ATX (3 PCI/ 1 ISA) (E)	48.00	Undefined
ATX (5 PCI/ 1 ISA/ 1 AGP) (E)	67.00	Now
Memory Modules		
SIMM – 16Mb (E)	32.00	Now
SIMM – 32Mb (E)	64.00	Now
DIMM – 128Mb (E)	105.00	Now
DIMM – 256Mb (E)	249.00	Next month
Storage Drives		
Floppy Drive – 3' ½" (E)	7.00	Now
Hard Drive – 4.3Gb (E)	45.00	Now
Hard Drive – 10Gb (E)	50.00	Now
ZIP Drive – internal – 250Mb	66.00	Next month
ZIP Drive – external – 250Mb	99.00	Now
Tape Drive – QIC	300.00	Undefined
Tape Drive – DAT	325.00	Now
CD-ROM (E)	56.00	Now
CD-RW	116.00	Now
DVD-ROM	250.00	Next month
Graphics Cards		
PCI	16.00	Now
AGP	89.00	Next month
Sound Cards		
PCI	32.00	Now

Continues on next page

Components list (continued)

Component (E = Essential Item for basic system)	Cost (\$ per unit)	Available
Case		
AT Desktop (E)	27.00	Undefined
ATX Mini-Tower (E)	26.00	Now
ATX Midi-Tower (E)	38.00	Next month
ATX Full-Tower (E)	66.00	Now
Displays		
LCD – 15" (E)	370.00	Now
LCD – 21" (E)	490.00	Undefined
CRT – 15" (E)	81.00	Next month
CRT – 21" (E)	180.00	Now
Keyboards		
Standard (E)	4.00	Now
Ergonomic (E)	19.00	Now
Ergonomic with built-in trackball (E)	25.00	Now
Pointing Devices		
Mouse (E)	1.50	Now
Trackball (E)	5.00	Now
Touchpad (E)	10.00	Undefined
Speakers		
Active (E)	15.00	Now
Passive (E)	9.00	Next month
NOTICE: UNDEFINED ITEMS TAKE OVER TWO MONTHS TO BECOME AVAILABLE		

Use the tables for Options 1, 2 and 3 to identify the best choice and calculate its cost.

Components	Availability	Cost (\$)
Option 1		
Socket 7 CPU - Pentium I equivalent		
AT (3 ISA/ 1 PCI) Motherboard		
2 x 16Mb SIMM		
3' 1/2" Floppy Drive		
4.3Gb Hard Drive		
CD-ROM		
AT Desktop Case		
15" CRT Monitor		
Standard Mouse		
Standard Keyboard		
Passive Speakers		
		Total = \$
Replace:		
With:		New Total = \$

Components	Availability	Cost (\$)
Option 2		
Slot 1 CPU – Pentium III equivalent		
ATX (5 PCI/ 1 ISA/ 1 AGP) Motherboard		
1 x 256Mb DIMM		
3' ½" Floppy Drive		
10Gb Hard Drive		
ZIP Drive (External)		
DAT Drive		
CD-ROM		
CD-RW		
DVD-ROM		
AGP Graphics Card		
PCI Sound Card		
Full-Tower ATX Case		
21" LCD Monitor		
Ergonomic Keyboard		
Touchpad		
Active Speakers		
		Total = \$
Replace:		
With:		New Total = \$

Components	Availability	Cost (\$)
Option 3		
Slot 1 CPU – Pentium III equivalent		
ATX (5 PCI/ 1 ISA/ 1 AGP) Motherboard		
1 x 128Mb DIMM		
3' ½" Floppy Drive		
10Gb Hard Drive		
ZIP Drive (External)		
CD-ROM		
CD-RW		
PCI Graphics Card		
PCI Sound Card		
Full-Tower ATX Case		
15" LCD Monitor		
Standard Keyboard		
Trackball		
Active Speakers		
		Total = \$
Replace:		
With:		New Total = \$

The best option is number because