(National Council for Vocational Awards)

PC Construction & Repair L21446

Theory Examination 2005

Duration: Two Hours

INSTRUCTIONS TO CANDIDATES:

Answer any five questions from Section A (40%)
Answer any two questions from Section B (30%)
Answer both questions in Section C (10%)
Carry out the task in Section D (20%)

Return this exam/answer paper when finished
Extra paper is available from the exam supervisor if required

This written exam counts as 40% of the total module

NAME (PRINT):_____

PPS NUMBER:_____

DATE:_____

Section A (40%)

Answer any 5 questions. All questions carry equal marks.

1. What is the POST and what function does it serve?

2. How are new fonts added to Microsoft Windows based computer systems?

3. Under Linux if X-Windows freezes or fails to respond, what key combination restarts the X-server?

4. What is the purpose of backing up computer files? Give one example of how this technique can be useful.

5. How do you access the CLI under Linux?

6. In which type of computers are SCSI devices, particularly hard-disks, typically used?

7. How are the start-up files skipped under Microsoft Windows Operating Systems?

8. What is the function of CTRL-ALT-DEL under (a) Windows 2000 and (b) RedHat Linux?
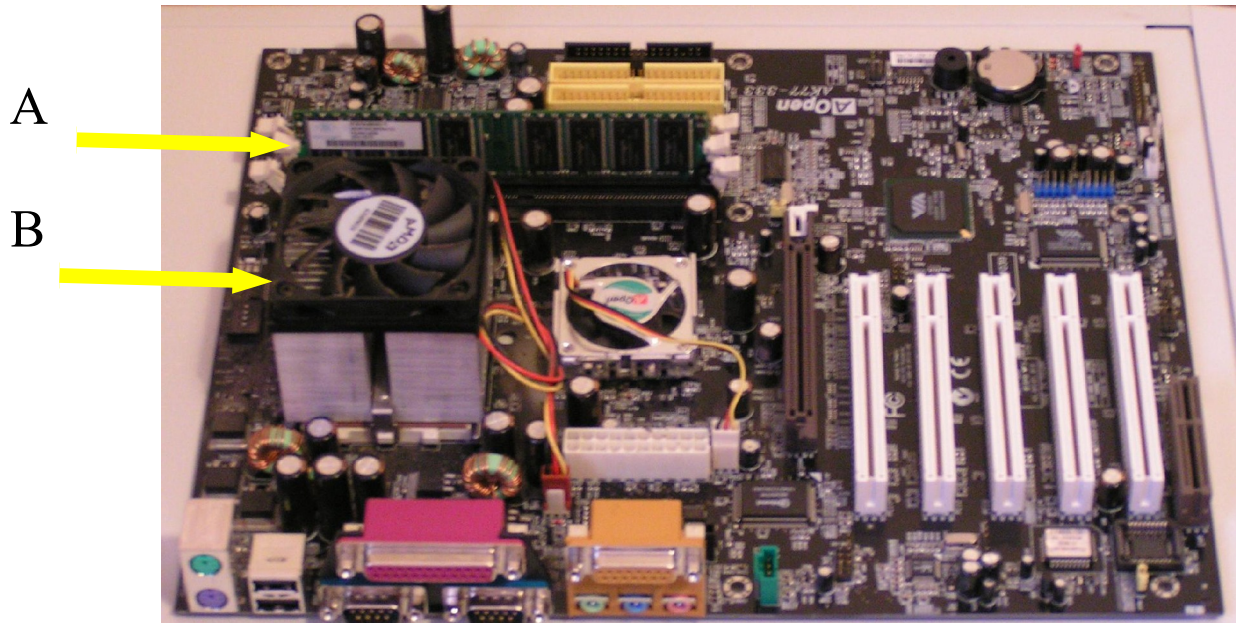
Section B (30%)

Answer any 2 questions. All questions carry equal marks.

1. A user has added a new cd-burner to his system. He now finds that he cannot start the computer at all. The system hangs at start-up What could be wrong? What steps should be taken to rectify the problem.

2. Its owner has brought a recently purchased computer to you. He complains that he cannot get pound signs in any of his applications and that some keys are not working properly; specifically the @ symbol appears as " and the " appears as @. What could be wrong and what steps should be taken to remedy the problem?

3. Explain briefly how a mechanical mouse operates. What is the advantage of an optical mouse. Explain how to clean a mouse.

4. A client bought a new computer and wants to make a home network using the new and old computers. What extra hardware components are likely to be required. Mention what software components are also required and where you might obtain them.

Section C (10%)

Answer both Questions.

1. (a) Identify the type of module shown at **A**; what core device is likely to be part of the assembly at **B**?
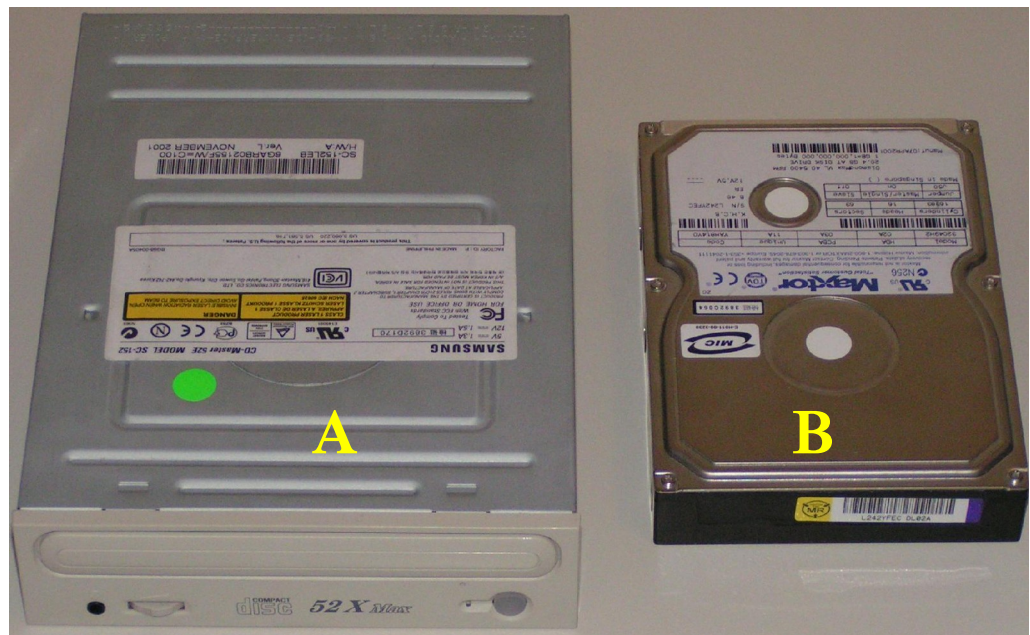

(b) What is the function of the device shown below. Where might it be used?

2.

(a) Identify the devices at **A** and and **B**. Make a brief comment on any differences or similarities between them.
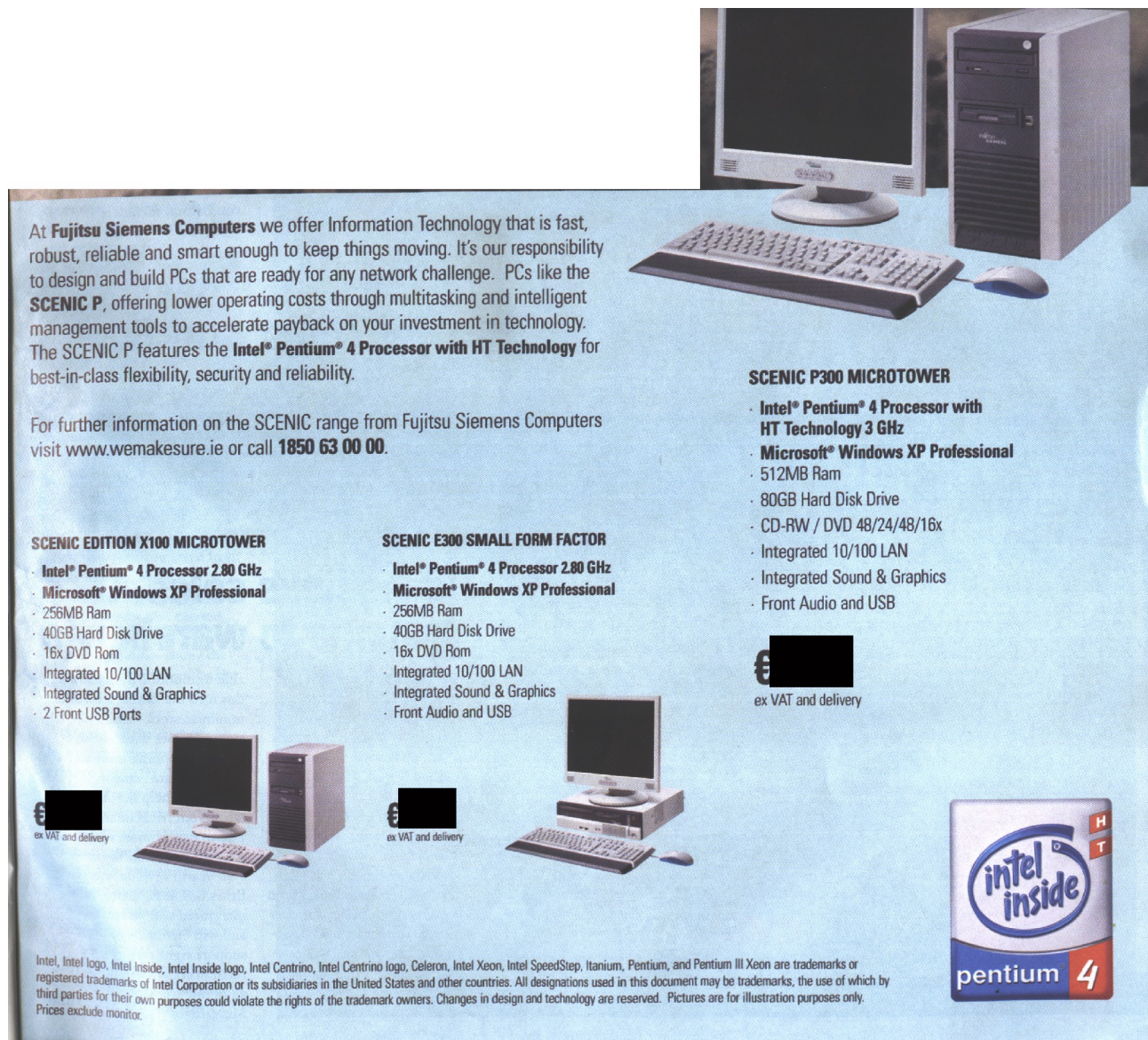

(b) What type of device is this? What is it used for?

Section D (20%)

At **Fujitsu Siemens Computers** we offer Information Technology that is fast, robust, reliable and smart enough to keep things moving. It's our responsibility to design and build PCs that are ready for any network challenge. PCs like the **SCENIC P**, offering lower operating costs through multitasking and intelligent management tools to accelerate payback on your investment in technology. The SCENIC P features the **Intel® Pentium® 4 Processor with HT Technology** for best-in-class flexibility, security and reliability.

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- **Microsoft® Windows XP Professional**
- 512MB Ram
- 80GB Hard Disk Drive
- CD-RW / DVD 48/24/48/16x
- Integrated 10/100 LAN
- Integrated Sound & Graphics
- Front Audio and USB

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ex VAT and delivery

SCENIC EDITION X100 MICROTOWER
- **Intel® Pentium® 4 Processor 2.80 GHz**
- **Microsoft® Windows XP Professional**
- 256MB Ram
- 40GB Hard Disk Drive
- 16x DVD Rom
- Integrated 10/100 LAN
- Integrated Sound & Graphics
- 2 Front USB Ports

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SCENIC E300 SMALL FORM FACTOR
- **Intel® Pentium® 4 Processor 2.80 GHz**
- **Microsoft® Windows XP Professional**
- 256MB Ram
- 40GB Hard Disk Drive
- 16x DVD Rom
- Integrated 10/100 LAN
- Integrated Sound & Graphics
- Front Audio and USB

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The advert shown above is from July 2004. Though almost a year has passed since these adverts were placed, the general specification for business computers has not changed greatly.

Comment on each type of computer under the heading of features present as well as features obviously absent, and whether their absence is an issue. Comment on the type of person likely to use each computer in an office environment.

Comment on the software required to carry out a range of standard business functions, as well as whether this software is likely to be expensive or not.

Finally, what do you think is the most important factor when choosing a PC: what type of PC to buy or from whom to buy it?