

1. Anne is the school network administrator at Latchfield Academy. One of her tasks is to ensure that regular backups are taken of all the files held on the server.

- (a) (i) Name a suitable backing storage medium that could be used for the backups and give a reason for your answer.

Backing Storage medium _____

Reason _____

- (ii) Name a backing storage medium that would be unsuitable and give a reason for your answer.

Backing Storage medium _____

Reason _____

- (b) Both *data files* and *program files* are backed up. Explain the difference between a data file and a program file.

- (c) Pippa is doing Standard Grade Computing Studies and is using a High Level Language for programming.

- (i) State **two** features of a High Level Language.

1 _____

2 _____

KU	PS
	2 1 0
	2 1 0
2 1 0	
2 1 0	

1. (continued)

(ii) Give **one** reason why machine code would not be used for teaching programming to school pupils.

(iii) When Pippa enters her program using the keyboard is the program stored on RAM or ROM?

(d) The *operating system* used by the school network is Windows 98.

(i) What is an operating system?

(ii) State **two** functions of an operating system.

1

2

KU	PS
1 0	
1 0	
1 0	
2 1 0	

2. (continued)

(d) As part of the deal a number of software packages have been included. They all use a *Graphical User Interface*.

(i) What is meant by a Graphical User Interface?

1
0

(ii) Give **one** advantage of using a Graphical User Interface.

1
0

(e) Bob is currently doing a programming course at the local college. He writes his programs using a *high level language*. These have to be translated so that computers understand them.

(i) Describe **two** other features of a high level language.

1

2

2
1
0

(ii) What is the name given to the language that computers understand?

1
0

KU	PS
1 0	
1 0	
2 1 0	
1 0	

3.



Paul has bought a new computer and he has been reading the manual to try and help him understand how the computer works. He is still unsure about various aspects and he asks you for help.

(a) Paul knows a high level language needs to be translated before the computer can understand it.

i) Describe **two** other features of a high level language.

ii) What are high level language programs translated into?

(b) Paul knows that there are two types of files – *program* and *data* files. Explain to him the difference between the two.

(c) Paul tried to print out a letter to his aunt. Some of the characters did not print out as he expected. Suggest a reason for this.

KU	PS
2	
1	
0	
1	
0	
2	
1	
0	
	1
	0

3. (continued)

(d) Paul read in a computer magazine about voice recognition.

i) Give an example of a situation where Paul might use voice recognition.

ii) Name an input device that his computer system will need for voice recognition.

(e) State **three** functions of an operating system.

KU	PS
	1 0
	1 0
3 2 1 0	

4. George is thinking of buying a new computer system and found the following advert in a magazine:

128 Mb Random Access Memory
 30 Gb Hard Drive
 MS DOS
 GUI Interface
 CD ROM drive
 Inkjet printer
 £699
Optional extras:
 Rewriteable CD ROM drive
 Voice recognition/Voice output system
 Scanner

(a) The operating system provided is MS DOS. Name **two** functions of the operating system.

(b) The computer understands machine code. Which of the following could be used to describe machine code. Tick (✓) **two** boxes.

- Is portable
- Consists of Os and 1s
- Is English like
- Doesn't need to be translated

(c) (i) High level languages are known to be easy for humans to understand. Why is this?

(ii) Name **one** other feature of a High Level Language.

KU	PS
2 1 0	2 1 0
1 0	
1 0	

4. (continued)

(d) Give **one** advantage of a Graphical User Interface.

**1
0**

(e) George notices that a rewriteable CD ROM drive is an optional extra. Describe a situation where George might use a rewriteable CD ROM drive.

**1
0**

(f) Voice recognition/voice output system is another optional extra mentioned in the advert.

(i) Name an input and an output device that would be required for voice recognition and voice output.

Input Device _____

Output Device _____

**2
1
0**

(ii) Describe a situation where a voice recognition/voice output system would be useful.

**2
1
0**

(g) The inkjet printer uses a standard *character set*. Explain what is meant by a *character set*.

**1
0**