Execute

Decode

Fetch

INPUT DEVICE OUTPUT DEVICE

Scanner speaker

Wii dance mat TFT monitor

Keyboard laser printer

3. Boric want to type a letter but finds using a keyboard difficult as he has mobility impairment. Which of the following would NOT provide a solution to make this easier for him?

a) Voice recognition

b) OCR

c) OMR

d) On screen keyboard

4. James is concerned that his computer program will run slowly because has lots of calculations stored in memory. Explain how the CPU cache will help speed up the performance.

The cache is very high speed it is much faster then the main memory.

The cache is also used to stores commonly used programs.

5. once finished james computer program is very large over – 10GB. His computer only has 4GB of RAM. Explain how the computer is still able to run the program.

The computer only loads the parts of the program it needs onto the RAM. The programs parts that are in use are only loaded. It can use virtual memory if it needs to load more memory then the RAM can hold.

6. Andy has a variety of task that requires storage. Suggest a storage device for each task and explain why you think it will be suitable:

a) He is an amateur photographer and takes large volumes of high quality photos. He needs to store them so that he can take them to the printers to be printed. Which device and why?

He can use a USB flash drive to store the photos because It is portable and can store huge volume of photos.

b) He uses PowerPoint presentations at work. He needs to be able to store them so he can quickly and easily take them to different meeting rooms. Which storage device and why?

He can use a USB memory stick to store his PowerPoint presentations because it is portable so it’s easy to move from meeting to meeting.

7. computers sometimes make use of virtual memory. Explain what virtual memory is, including the impact that it has on computers performance and how use of virtual memory can be avoided.

Virtual memory is used as a temporary storage it can also be avoided by adding more RAM. Virtual memory slows down the computer.

Virtual memory is used when your computer is lacking memory in the RAM; it moves data from the RAM to a file on the main storage allowing more memory in the RAM.