

GCSE Computing

Revision Pack

FOUR

Input, Output, Storage

Name:

Attempt One %

Attempt Two %

Attempt Three %

Areas of Strength

Areas for Development

1. A shopping centre uses several remote-controlled CCTV cameras for security. An operator uses a computer to watch, control and record the output of the cameras.

State an input, output and storage device, which will be needed by the computer. For each, explain the reason why it is needed. (9 marks)

2. State what is meant by a storage device, an input device and an output device in a computer system. (3 marks)

3. Complete the table below to show whether magnetic, optical or solid state storage is most appropriate for each of the following uses. Give a reason for each case. The first one has been done for you. (6 marks)

	Magnetic, optical or solid state	Reason why this is most appropriate
Storing pictures in a digital camera	solid state	Is not affected by the camera being moved around
Handheld device used by students for field work		
Storage drives on the school's main file server		
Videos of the school production to be given to parents		

4. Describe, with examples, input and output devices which are available for students with disabilities. (6 marks)

5. The traffic lights in a town are controlled by a computer system. The town's council is concerned about the reliability of the system.

Explain, using examples from the traffic light system, what is meant by reliability and why the town needs the system to be reliable. (6 marks)

6. A school uses a computer system to monitor the attendance, punctuality and homework of its pupils. Describe **two** ways in which modern computer technology can help the school monitor the pupils. (4 marks)

7. The table below contains a list of hardware devices. Tick **one** box in each row to show what type of device it is. The first one has been done for you.

Hardware device	Input	Output	Processing	Storage	Communication
Monitor		Y			
CPU					
Mouse					
DVD-Drive					
Speakers					

8. Davinder is a music student. She needs to take her files from her home computer into college. Identify a method of storage which is suitable for taking her music files into college. State why this method is suitable. (2 marks)

9. A tablet computer can be used to surf the Internet, read and reply to emails and watch on-line movies. In the table below, tick **one** box in each row to show whether each of the following is an output device or not. (3 marks)

	is an output device	is not an output device
Screen		
USB Port		
Speaker		

10. A tablet computer has built-in input devices. Identify **two** input devices that can be built into a tablet computer and for each state how it could be used to input data. (4 marks)

11. Most computer systems use at least one storage device. Explain **one** reason why a secondary storage device is needed in most computer systems. (2 marks)

12. Some secondary storage devices are magnetic and others are solid state. Describe the characteristics of magnetic and solid state secondary storage. (6 marks)

13. Apu has a handheld e-book reader that allows him to store and read electronic books. State **one** input and **one** output device that can be built into the e-book reader to allow users to read books. (2 marks)

14. Types of secondary storage devices are magnetic, optical or solid state. State which type of storage is most suitable for storing the electronic books inside the e-book reader. (1 mark)

15. Explain **one** reason why this type of storage is the most suitable. (2 marks)

16. Give **two** reasons why a CD-ROM is suitable in this case. For a free ebook in a magazine (2 marks)

17. State whether a CD-ROM is magnetic, optical or solid state storage. (1 mark)

18. A typical smart phone is a computer system with input, output and storage devices. State **one** input device, **one** output device and **one** secondary storage device that are built into a smart phone. (3 marks)