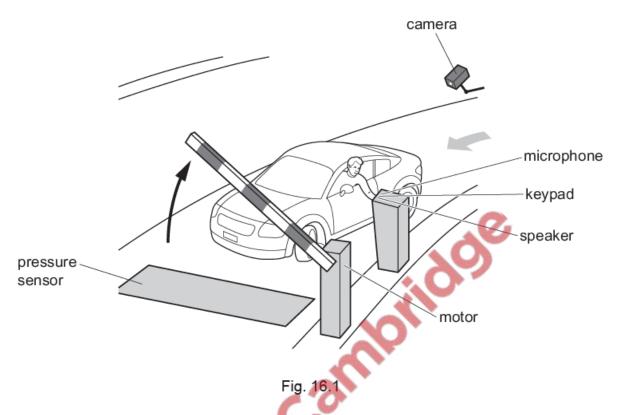
Input and output devices – 2023 ICT IGCSE 0417

1.	March/2023/Paper_0417/12/No.2 Tick (✓) the device which produces hard copy.	
	A Buzzer	
	B Laser printer	
	C Touch screen	
	D Webcam	
		[1]
2.	March/2023/Paper_0417/12/No.6 Bluetooth is a method of wireless communication.	
	State two devices found in the home which could be connected via Bluetooth.	
	1	
	2	
	Co	[2]
3.	March/2023/Paper_0417/12/No.10 Some computers have touch screens.	
	Describe three benefits of using a touch screen.	
	1	
	2	
	3	
		[3]

4. March/2023/Paper_0417/12/No.16(a)

A school car park is controlled by a barrier. When teachers enter the car park their number plate is read and the barrier is raised automatically.



(a) Visitors can use the keypad as an input device to enter a code which allows the barrier to be raised.

Identify three other input devices shown in Fig. 16.1.

1		O.	 	
2 .				
3				

5.		/2023/Paper_0417/11/No.8 Compare Optical Mark Readers (OMRs) with Optical Character Readers (OCRs). Your ans must include similarities and differences.	wer
		409	
		CO ³	[6]
	(b)	Identify two uses of Optical Mark Recognition (OMR).	
		2	
		••	[2]

0.		rable hard drives can be Solid State Drives (SSDs) or Hard Disk Drives (HDDs).	
	Expl	lain why the SSD may be better to use than the HDD.	
		407	[4]
7.	June/ Ider	/2023/Paper_0417/12/No.2 ntify the most appropriate hardware from the descriptions given:	
	(a)	non-volatile internal memory used to store the start-up instructions	[1]
	(b)	an internal component that provides the input and output of audio signals	[41
	(c)	an internal component that is composed of the main memory, the control unit and the arithm logic unit.	[1] etic
			[1]

A headteacher is producing a web page about the history of her school. She has been given some old hard-copy photographs which she will include on the web page. She has a digital camera and a scanner to use to convert the hard-copy photographs into a digital format.
Compare the use of a digital camera with a scanner in this scenario. Your answer must include similarities and differences.
[4]
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8. June/2023/Paper_0417/12/No.3

(a)	The products in a warehouse contain either a bar code or a Radio Frequency Identification (RFID) tag.	tion
	The data about each product is read electronically.	
	Compare bar code readers and RFID readers. Your answer must include similarities differences.	and
		[6]
(b)	Identify two other uses of RFID.	
	1	
	2	
		[2]

9. June/2023/Paper_0417/12/No.9

10.		/2023/Paper_0417/12/No.13(b, c) eather forecasters use computer modelling.	
	(b)	Data is collected by different types of sensor and then input to the computer model to processed.	be
		Identify two sensors that could be used to collect weather data.	
		1	
		2	
			[2]
	(c)	The processed data is then output.	
		Identify two output devices that could be used.	
		1	
		2	
11.	June,	/2023/Paper 0417/13/No.2(b, c)	[2]
	Ide	ntify the most appropriate hardware from the descriptions given.	
	(b)	An external device that retains a computer's data even after the computer is turned off.	
			[1]
	(c)	An input device that is attached to a monitor.	
			[1]

12.	2. June/2023/Paper_0417/13/No.3 A group of students are producing a class newsletter which they will email to parents of students in the class. They are deciding whether to use a laptop computer or a smartphone to type the newsletter.			
	(a)	Discuss the advantages and disadvantages of using a laptop computer rather than a smartphone for this purpose.		

(b)		tudents have decided to use a smartphone. Data for the newsletter will be input, I and output by the smartphone.	
	(i)	Identify two devices that are part of the smartphone that could be used to input the data for the newsletter.	
		1	
		2	
			[2]
	(ii)	Identify two devices that are part of the smartphone that could be used to output data from the newsletter.	
		1	
		2	
			[2]
	(iii)	Identify two appropriate devices that could be used to store data for the newsletter.	
		1	
		2	
		Pak	[2]
(c)	The n	ewsletter is to be saved as a PDF and sent as an email attachment to parents.	
	Descr	ibe two benefits of saving the newsletter as a PDF.	
	1		
	2		
			[2]

(d)	Describe the features that the students must include to make the newsletter appeal to the parents.	
		[4]
		[1]
	Palpacamilorio	
	Pak Pak	

/2023/Paper_0417/11/No.2 te the most appropriate word or phrase to complete each sentence.	
The type of data output from a sensor is	
	[1]
The type of data read by a microprocessor is	
	[1]
The type of sensor that is used in a refrigerator is	[1]
Palpacamin	[1]
	te the most appropriate word or phrase to complete each sentence. The type of data output from a sensor is The type of data read by a microprocessor is The item of hardware that converts data from a sensor so a microprocessor can read it is The type of sensor that is used in a refrigerator is

14.	A g	72023/Paper_0417/11/No.3 roup of the quality of river water for a project. They can er use a tablet computer or a smartphone to monitor and record their findings.
	(a)	Discuss the advantages and disadvantages of using a tablet computer rather than a smartphone for this project.
		Co

[2]

(b) Identify two devices that could be used by the students to enter data.

15.	Nov/2023/Paper_0417/11/No.4 A headteacher is considering setting up a card system for students to buy food in the school canteen.
	The headteacher is trying to decide whether to install a system that uses magnetic stripe card readers or one that uses chip and PIN card readers.
	Compare the use of magnetic stripe card readers with the use of chip and PIN card readers. Your answer must include similarities and differences.
	[6]
16.	Nov/2023/Paper_0417/12/No.1
	Tick (✓) one external device.
	A sound card
	B pen drive
	C motherboard

D ROM

17. Nov/2023/Paper_0417/13/No.3(b)

A teacher is setting up a school shop. The teacher is setting up a spreadsheet to keep the accounts of the shop.

(b) Each box delivered to the school shop includes a QR code.

Explain why QR codes are used.	
	[4]
Ralpacaliti	[-1

	Analyse the use of a 3D printer to make the components rather than making the componer by hand.
Nov	/2023/Paper 0417/13/No.8(a, b)
Ma	/2023/Paper_0417/13/No.8(a, b) ny devices in the home can be connected to the internet so they can be controlled remotely. ese devices are called smart devices. A house contains a smart security system.
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18. Nov/2023/Paper_0417/13/No.7(b)

(b)	Identify two sensors that could be used with the smart security system.
	1

[2]



20. March/2024/Paper_0417/12/No.11 More people use desktop computers rather than tablet computers when working at home. (a) Discuss the advantages and disadvantages of using desktop computers rather than tablet computers for doing work at home. [6] (b) Desktop computers use input and output devices. State two input devices that can be used in a desktop computer for working at home.

[2]