Input and output devices - 2021/20 IGCSE 0417

1. Nov/2021/Paper_12/No.2

Tick (✓) the most appropriate printer which relates to the following statements.

	3D (✓)	Dot matrix (✓)	Laser (✓)
This printer is an impact printer			
This printer uses toner			
This printer uses an inked ribbon			
This printer uses tomography		700	
Pale			

As a student you often use a computer keyboard. This could be a virtual keyboard or a physical keyboard on a desktop computer, a laptop computer or even a smartphone.
Evaluate your use of computer keyboards in terms of health risks, and explain any strategies you use to minimise these health risks.

2. Nov/2021/Paper_12/No.6

		air-conditioning system has been fitted in a hotel bedroom. The air-conditioning system tain fans which operate at varying speeds.	will
	Ide	ntify the devices used in the system from the descriptions given.	
	(a)	This device captures the temperature from the room.	
			[1]
	(b)	This device changes the data from the microprocessor into a form that can change the sp of the fan.	eed
			[1]
	(c)	This output device operates the fan.	
			[1]
4.		/2021/Paper_13/No.1 blet computer has input and output devices.	
	(a)	Give two examples of input devices which are part of a tablet computer.	
		1	
		2	
			[2]
	(b)	Give two examples of output devices which are part of a tablet computer.	
		1	
		2	
			[2]

3.

Nov/2021/Paper_12/No.11

5. Nov/2021/Paper_13/No.2

MICR, OCR and OMR are examples of recognition systems.

Tick (✓) the most appropriate recognition system which relates to the following statements.

	MICR (✓)	OCR (√)	OMR (✓)
This system magnetises the special characters on cheques in order to read them			
This method is used to read car number plates			
A bar code is an example of this system		0	
If the media from this system is photocopied it cannot be read by the recognition system		190	
	40		

6.	Nov	/2021	/Paper	13	/No 7a
u.	INUV	/ 2021	/ raper	10	/ INO. / a

Many customers now use contactless payment and internet banking.

(a)	Describe the comp purchases.	outer processing		ards to pay for
		~~~		
		8.		
		7	 	 
	*	<u></u>	 	 
			 	 [4]

	/2021/Paper_12/No.6 nplete the following	sentences, using the r	nost appropriate di	rect data entry device.	
а	bar code reader	a chip reader	MICR	a magnetic stripe reader	
	OCR	OMR	PIN pad	RFID reader	
(a)	The device that rea	ads data from a card in	a contactless card	l system is called	
				[	1]
(b)	The device that rea	ads scanned text and c	converts it into a rea	adable form is called	
				[	1]
(c)	The device that re called	ads the data made up	of black lines and	d spaces on household goods i	S
	***	Palpa		[	1]

8.	A so card mon	/2021/Paper_12/No.7 hool is planning to introduce a contactless card system for pupils to pay for school meals. Each contains an amount of money which is topped up by parents. Parents transfer amounts of ey into the school system and pupils place the card close to a reader to upload the money onto card.
	(a)	Discuss the benefits and drawbacks, to the pupils, of using a contactless card system rather than paying by cash.
9.	June	[6] //2021/Paper_11/No.2

Circle **two** input devices that could be used in a smartphone.

magnetic stripe reader HDD microphone mouse remote control touchpad speaker touch screen

[2]

10.	June/2021/Paper_12/No.2a  (a) Circle <b>two</b> items that could be used to output data directly from a smartphone.						
		Blu-ray disc	microphone	mouse		screen	
		SD card	sensor	speaker		webcam	
							[2]
11.		/2020/Paper_11/ nplete the ques	No.1a tion using an appropriate	e item from the list g	iven.		
	Blu-	ray disc drive	DVD RAM drive	Hard disk drive	Keyboard	Laser printer	
	L	CD monitor	Magnetic tape drive	Mouse	Pen drive	SSD	
	(a)	Identify <b>two</b> ou	utput devices from the lis	t.	70		
		1					
		2		<b>7</b> 0.			 [2]
	(b)	Identify two op	otical storage devices fro	m the list.			
		1		J*			
		2	Na Sidio				[2]
		••					

	Bar	code reader	Blu-ray drive	DVD drive	Hard Disk Drive	Keyboard
	М	emory stick	Mouse	Optical Character Reader	SSD	TFT monitor
	(a)	•		devices from the list.		
						[2]
	(b)	Identify <b>two</b> di	rect data entry de	evices from the list.	.0	
		1				
		2				[2]
13.		/2020/Paper_12/I		10		[-]
	A co	omputer system	consists of a nun	nber of different items of har	dware.	
	Writ	e down the mos	t appropriate iten	n of hardware that fits the fol	lowing descriptions	
	(a)	A non-volatile of	levice that stores	the start-up commands.		
				50		[1]
	(b)	A printer that p	roduces physical			F41
						[1]

Complete the question using an appropriate item from the list given.

**12.** Nov/2020/Paper_12/No.1a,b

[1]

(c) A hardware device that reads analogue data from the environment.

14.	The exh	2020/Paper_13/No.11 director of a museum in China is planning an exhibition on ancient civilisations. One of the ibits is a full representation of a 10000-year-old human. The Natural History Museum in don is planning to send a complete skeleton, but it is too fragile.
	(a)	Describe how a computer could be used to create a 3D copy of the skeleton which will then be printed in China.
		[5]
	(b)	Describe <b>four</b> benefits of using 3D printers.
	. ,	1

[4]

# **15.** Mar/2020/Paper_12/No.1

A list of hardware items is given.

3D	printer	Actuator	LCD monitor	Memory stick	Mouse	
F	RAM	Touch screen	Video card	Webcam	Wide format print	er
(a)	Identify <b>two</b>	input devices from t	the given list.			
	1					
	2					[2]
(b)	Identify <b>two</b>	internal hardware d	evices from the give	en list.	,	
				dilo		
	2		pacam			[2]
	•	Bo				

16.	Mar/2020/Paper_12/No.7 A company is considering developing a laptop computer that only uses biometric methods to authorise user access to this laptop computer. The developers are considering using facial recognition.					
	(a)	Explain, giving other examples, why biometric methods are considered to be a more secure way of authorising access to the laptop computer rather than typing in passwords.				
		Co				
			[6]			
	(b)	Describe the disadvantages of using facial recognition to authorise access to the laptop computer.				

.....[4]

### 17. June/2020/Paper_11/No.9

Point of sale (POS) terminals are used in supermarkets.

(a) Tick (✓) which of the following devices used at a POS terminal are only input devices, which are only output devices and which are both.

Device	Input (✓)	Output (√)	Both (√)
Bar code reader			
Buzzer			
Touch screen on till		C	
Receipt printer		70	
Light sensor on the conveyor belt	~		
Electronic scales	MIL		

[6]

	(b)	A stock file contains data about the goods being sold. Describe the steps needed to update the stock file when an item is scanned at the point of sale (POS) terminal. Include in your description how new stock can be ordered automatically.							
					<b>.</b> @				
				<b>A</b>	9)				
				XO.					
				10					
				,		[6]			
18.	June	e/2020/Paper_12/No.7	20						
	Cor	mplete each sentenc	e using the most app	ropriate output device fr	om the following list.				
		3D printer	Buzzer	Dot matrix printer	Heater				
		Laser printer	LCD monitor	Light	Wide format printer				
	(a)	The device that car	n produce prosthetic I	imbs is called a					
	(-)		produces procured						
						[1]			
	(b) The device that can output soft copy is called a								
						[1]			
	(c)	The device that car	n produce sound as it	s main output is called a	1				
						[1]			