## Types and components of computer systems – 2023 ICT IGCSE 0417

1.		h/2023/Paper_0417/12/No.1  Explain what is meant by the term software.	
			[1]
	(b)	State the <b>two</b> types of software used by computers.	
		1	
		2	
2.	Marc	h/2023/Paper_0417/12/No.14	[2]
	Con	npare RAM and ROM. Your answer must include similarities and differences.	
			[4]

	lder	ntify the hardware from the descriptions given.	
	(a)	A volatile internal memory that stores the current instruction.	
			[1]
	(b)	A printed circuit board containing the CPU and other components of a computer.	
			[1]
	(c)	A printed circuit board that controls the output to a monitor.	
			[1]
	(d)	A printed circuit board that is installed in a computer so that the computer can be connect to a network.	cted
4.		/2023/Paper_0417/11/No.10 ne people use dialogue-based user interfaces to operate their car audio system.	,
	(a)	Describe what is meant by a dialogue-based user interface.	
			[2]
	(b)	Describe the benefits and drawbacks of using a dialogue-based user interface in this way	/.
	(-)	•••	
			[4]
			F . 1

**3.** June/2023/Paper\_0417/11/No.2

(a)	Desci	ribe why Blu-ray discs are preferred to an internal hard disk for storing movies.	
		* 9	[4]
(b)	Hard	disks and Blu-ray discs are examples of backing storage.	
	(i)	State two characteristics of backing storage.	
		1	
		2	
			[2]
			[-]
	(ii)	Identify two other types of backing storage.	
		1	
		2	
			[2]

June/2023/Paper\_0417/12/No.11
 Movies can be stored on Blu-ray discs or an internal hard disk.

6.	Nov/2023/Paper_0417/11/No.9  Rowena's laptop computer contains a small capacity Solid State Drive (SSD) of 32Gb and a large capacity Hard Disk Drive (HDD) of 1024Gb.			
	(a)		giving a reason for your choice, a use for the SSD and a use for the HDD in the computer. Your answers must be different in each case.	
		(i)	SSD	
				101
				[2]
		(ii)	HDD	
			AQ.	
				[2]
	(b)	The la	ptop computer also contains internal memory.	
		Give t	wo examples of internal memory.	
		1		
		2		

[2]

(a)	Explai	n what is meant by these types of data.	
	(i)	analogue data	
			[1]
	(ii)	digital data	
			[1]
(b)		l data is processed in a computer system. Sometimes digital data needs to be convert llogue data.	ted
	Explai	n why digital data may need to be converted to analogue data.	
			[1]
		Oalpa.	

7. Nov/2023/Paper\_0417/12/No.2
A computer system uses both analogue and digital data.

(c)		ne most appropriate phrase from the list to complete the sentences. Your answer oe different in each case.	
	analo	gue data	
	digital	data	
	displa	y a graph on a monitor	
	input t	he maximum safe water level for a river	
	meası	ure acidity levels in a river	
	contro	l humidity levels	
	open t	the windows in a greenhouse	
	(i)	A motor is used to	
	(ii)	A DAC outputs	[1]
	(iii)	A sensor is used to	[1]
			[1]

8.	A gı	/2023/Paper_0417/12/No.5 roup of pupils is planning to create a newsletter for a history project. The group can either us martphone or a phablet computer.	e
	(a)	Explain what is meant by a phablet computer.	
		[	2]
	(b)	Discuss the advantages and disadvantages of using a phablet computer rather than	2
	(D)	Discuss the advantages and disadvantages of using a phablet computer rather than smartphone for this project.	а
		~0	
			6]

Mar	ny teachers use multimedia projectors in their lessons.	
(a)	State two health issues associated with the use of multimedia projectors.	
	1	
	2	
(b)	State <b>two</b> safety issues associated with the use of multimedia projectors.	[2]
	1	
	2	
	a ildo	[2]
	2023/Paper_0417/13/No.7(a) ckit Aircraft manufactures and flies aeroplanes.	
(a)	The pilots at Rockit Aircraft are trained using extended reality.	
	Describe what is meant by extended reality.	
		[2]

**9.** Nov/2023/Paper\_0417/12/No.6

11.			Paper_0417/12/No.2 r system consists of both hardware and software.	
	(a)	Explai	in what the following types of software provide in the computer system.	
		Applio	ations	
		Syste	m	
				[2]
	(b)	Give t	wo examples of each type of software.	
		(i)	Applications	
			1	
			2	
				[2]
		(ii)	System	
			1	
			2	
12.	Marc	ch/2024	/Paper_0417/1 <mark>2/N</mark> o.3	[2]
			two forms of data: analogue and digital.	
	Cor	ntrast a	nalogue and digital data.	
				[4]

Describe the role of the CPU in processing instructions to produce an output.	
Palpa Camilo.	
March/2024/Paper_0417/12/No.5	
A doctor uses a gesture-based user interface.	
State two other types of user interface.	
1	
2	

13. March/2024/Paper\_0417/12/No.4
Computers contain a Central Processing Unit (CPU).

	h/2024/Paper_0417/12/No.6 gmented Reality can be used with a Global Positioning System (GPS) device.	
(a)	State two other uses of Augmented Reality.	
	1	
	2	
		[2]
(b)	Describe the differences between Augmented Reality and Virtual Reality.	
		[2]
	Palpa Calfillo	[-]