

## ICT 0417 Past Papers Chapter 1 Hardware and Software

Teacher: Ashraf Al-Massou

Circle two items which are internal hardware components.

Actuator Keyboard Linker Monitor

Mouse Printer Processor Sound card

[2]

2 One component of the internal memory of a computer is Random Access Memory (RAM).

State two characteristics of RAM.

Question	Answe
Question	Allowe
1	Processor
	Sound card
Question	Answe
2	Two from:
	RAM can be read from and written to
	RAW Call be read from and written to
	RAM is volatile memory

6 A smartphone has many uses, for example making and receiving telephone calls.

Give four other uses of a smartphone.

1	6 Four from, for example:	
	Global Positioning System//satellite navigation Calendar	
2	Video calling Social networking	
	Online banking Emails	
3	Playing and streaming videos/music Text messaging	
	Searching the internet Taking photos	
4	Gaming Control of home devices Language translation	
	Language nansianon	

[4]

		Feb/Ma	rch2021/1
ick (✓) whether the following are examples of ir	nternal or external hardware	devices.	
	internal (√)	external (√)	
Mouse			
/ideo card			
Printer			
Actuator			
	1		[2]

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3

1

Chapter 1

	internal	external
Mouse		<b>✓</b>
Video card	1	
Printer		1
Actuator		1

2 marks for 4 correct ticks 1 mark for 2 or 3 correct ticks 0 marks for 0 or 1 tick

Feb/March2021/12

2 Geeta spends a great deal of time at work entering data into her computer.

State **three** items of hardware that Geeta should be provided with to help avoid RSI when she enters data into the computer.

1.....

2 Three from:
Ergonomic keyboard
Ergonomic mouse
Microphone
Wrist rest

[3]

3 Describe four characteristics of a tablet computer.

1	3	Four from:	
		Screens tend to be anti-glare	
		Uses touch screen	
		Front and back facing cameras are included	
2		Has a built in battery	
		Lightweight	
		Uses Bluetooth/WiFi/3G/4G/5G	
3		Uses solid state memory	
		Uses an onscreen keyboard	
		Portable	
4		Small footprint	
•			

[4]

(b) One of the uses of a smartphone is the sending and receiving of emails.

Describe four other uses of a smartphone.

	2(b)	Four from, for example:	
		Order goods from the internet	
		Use it to surf/search the internet	
2		GPS	
		Telephone/internet banking	
		Make/receive phone calls	
		Instant message	
3		Streaming of music	
		Streaming videos	
		Text messaging	
		Taking photos	
4			

[4]

Novemb	oer 2021	qp11

							Novembe	1 2021
A co	omputer consis	sts of both	hardware and	software.				
(a)								
(a)	Deline the ter	IIII IIai uwa	ie.					
		1(a)	The physi	cal compor	ents of	the co	mputer	[1]
(b)	Give <b>two</b> exa	amples of ir	nternal hardwa	are devices.				
	1				1(b)	Two	from:	
	2					Proc	essor	
							nerboard	[2]
(c)	Define the te	rm software	э.				o/graphic card nd card	d
								[1]
								[.]
l) Th	ere are two ty	ypes of so	ftware: syste	m and applic	ations.			
Gi	ve <b>two</b> exam	ples of app	olications soft	tware.				
1.			1(d)	Two from	for ove	mplo:		
			T(u)	I WO II OII	ioi exc	impie.		
••••				Word pro				
2 .				Spreadsh				
				Database Presentat				
				· · · · · · · · · · · · · · · · · · · ·			J	[

1

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1(c)	One from:	
	Programs for controlling the operation of a computer Programs for processing of electronic data Program/data/applications	November 2021   qp11
	cribe <b>two</b> advantages of using a tablet computer rather than a laptop or	omputer.
2		
		[2]
3	Two from:	
1		
	Tends to be a faster to load up the operating system They are more lightweight so can be carried anywhere/ Don't generate as much heat Lower power consumption therefore batteries last longer	
	Tends to be a faster to load up the operating system They are more lightweight so can be carried anywhere/ Don't generate as much heat	
	Tends to be a faster to load up the operating system They are more lightweight so can be carried anywhere/ Don't generate as much heat	er
A com	Tends to be a faster to load up the operating system They are more lightweight so can be carried anywhere/ Don't generate as much heat Lower power consumption therefore batteries last longer	November 2021   qp12
A com (a) 6	Tends to be a faster to load up the operating system They are more lightweight so can be carried anywhere/ Don't generate as much heat Lower power consumption therefore batteries last longer	November 2021   qp12

**(b)** There are two types of software: system and applications. Give **two** examples of system software. Two from: Compilers Linkers Device drivers 2 ..... Operating systems \_ Utilities (a) Describe two disadvantages of using a tablet computer rather than a laptop computer. Two from: 3(a) Can be more expensive to run if the internet is accessed by mobile data 2 ...... Touch screen can be more error prone when typing the data Laptop computers support more file formats Does not have a physical keyboard therefore more difficult to type Has a smaller screen therefore can be more difficult to read (b) Modern computers often do not have an optical drive. State two ways music can be transferred onto a computer that does not contain an optical drive. 3(b) Two from: 1 ...... Streaming music from the internet Sent by Bluetooth from another device 2 ...... Plugging in an optical device/flash drive/HDD/SSD Downloading music from the cloud Direct input using a microphone [2] Sent by email attachment

1	A tablet	computer	has	input	and	output	devices.
---	----------	----------	-----	-------	-----	--------	----------

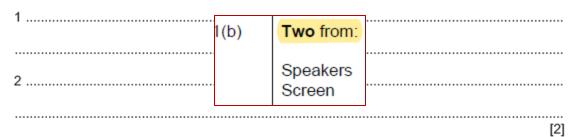
(a)	Give two	examples	of input	devices	which	are	part	of a	tablet	comput	er.

1(a)

Two from:

Touchscreen Camera Microphone

(b) Give two examples of output devices which are part of a tablet computer.



9 Rockit Motors has opened a car store in a shopping mall.

Customers can test drive the cars they are planning to purchase using virtual reality systems within the store.

(a) Name two devices which would be used in this virtual reality system.

1	9(a)	Two from:	
2		Headset/head mounted displays/HMD Data goggles	
		Steering wheel Large monitor/screen/projector	[2]
		Surround Speakers	رے

(b)	Explair	n the t	term virtua	al reality.	
			9(b)	Three from:	]
				A computer-generated simulation Uses a three-dimensional environment	
				Can be interacted within a real or physical way The equipment is fitted with sensors	
					[3]
and	l memo	s for t	the compa	lotors has created many different types of documents inc any. Each of them is produced using its corporate house sty e house styles are required.	
9(c	(	Four	from:		
		Lets comp Easie To re To re	people k cany er to reco educe the educe co	sistency across all documents snow that the stationery/documents belong to the sound of the sound formatting document of time spent in setting up and formatting document of setting up and formatting documents of setting up and setting up and formatting documents of setting up and sett	ts

1 A list of hardware items is given.

3D printer	Actuator	LCD monitor	Memory stick	Mouse
RAM	Touch screen	Video card	Webcam	Wide format printer

(a) Identify two input devices from the given list.

2	1(a)	Webcam Mouse	
· · · · · · · · · · · · · · · · · · ·			

(b) Identify two internal hardware devices from the given list.

1	1(b)	RAM Video card	
Z			

[2]

[2]

- 4 Smart technology is increasingly being used in everyday life. Many people are now using smart devices such as smartwatches.
  - (a) Tick (✓) whether the following statements most appropriately refer to a desktop computer, a tablet computer or a smartwatch.

	desktop computer (√)	tablet computer (√)	smartwatch (√)
A computer made up of separate units			
Is an example of wearable technology			
A portable device that allows text to be typed relatively easily			
Most easily used for fitness and health monitoring by runners			

[4]

	desktop computer	tablet computer	smartwatch
A computer made up of separate units	✓		
Is an example of wearable technology			✓
A portable device that allows text to be typed relatively easily		<b>✓</b>	
Most easily used for fitness and health monitoring by runners			✓

(b)	Smar	tphones	are more like	ely to be u	sed than lapto	op computers	for everyda	y ICT use.
	Desc	ribe <b>thre</b>	e advantage	s of using	a smartphone	e rather than a	laptop com	nputer.
	1 2 3	4(b)	Smaller in s More likely t Easier to re	ole as it is lize therefore the control of the cont	make phone ca etaining the sig	your pocket with you at all ti alls on the mov	е	olaces than a laptop co
1	A com	puter cons	sists of both har	dware and	software.			May/June2020/1
1	(a) D	efine the to	erm software.	dware and	software.			May/June2020/1
1 a)	(a) Do	wo fror oftware	erm software. n: e is program s for contro	ns and da	ata operation o	of a compute	r	May/June2020/1
	(a) Do	wo fror oftware rogram rogram	erm software. n: e is program s for contro	ns and da olling the ssing of	ata			May/June2020/1
	(a) Do	wo fror oftware rogram rogram	erm software.  n: e is program s for contro s for proces wo types of soft	ns and da olling the ssing of	ata operation o			
	(a) Do S P P Id	wo from oftware rogram rogram	erm software.  n: e is program s for contro s for proces wo types of soft	ns and da olling the ssing of ware.	ata operation o	ata		

2 Tick (✓) whether the following statements refer to a Command Line Interface (CLI) or a Graphical User Interface (GUI).

	CLI (√)	GUI (✓)		
The user has to type in every instruction		I	CLI	GUI
The user does not need to learn any of the instructions	1	e in every instruction leed to learn any of the	7	<b>✓</b>
Each instruction has to be typed in correctly		s to be typed in correctly communication with the	✓	
The user is in direct communication with the computer	Two marks for four co One mark for two or t Zero marks for one co	hree correct ticks		

[2]

3 Every computer contains input and output devices and a central processing unit (CPU).

(	a)	Describe	the	CPU	including	its role.

f a computer program
culations
ions of the computer
control unit

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(b) Data can be read directly by using a number of different devices.

Name the most appropriate device used to read the following data.



05482 55448 654478 25447

.....





.....

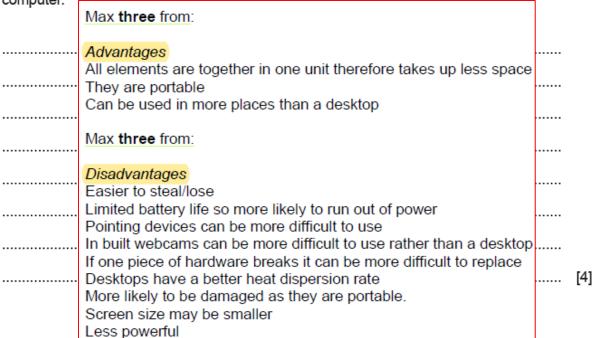
[4]

3(b)

- (i) RFID reader
- (ii) Magnetic Ink Character Reader/MICR
- (iii) Bar code reader
- (iv) Chip reader

7 The headteacher of a school has decided to replace desktop computers with laptop computers.

Describe the advantages and disadvantages of using a laptop computer rather than a desktop computer.



2

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C:\users\Test >\_

**May/June2020/12** 

(a)	Write do	wn the ty	pe of interf	ace shown.			
			2(a)	Command Li	ne Interface/CLI	[1]	
(b)	Write do	wn <b>two</b> (	disadvantag	es of using this typ	oe of interface.		
	1	2(b)	Have	to remember/le to type in the c	earn the commands commands <u>accuratel</u> commands typed in	_	
						[2]	
7	Comple	te each	sentence u	sing the most app	propriate output device fro	om the following list.	
	3	D printe	r	Buzzer	Dot matrix printer	Heater	
	Las	ser print	er	LCD monitor	Light	Wide format printer	
	(a) The	e device	that can pr	oduce prosthetic	limbs is called a		
							[1]
	(b) The	e device	that can ou	itput soft copy is o	called a		
							[1]
	(c) The	e device	that can pr	oduce sound as it	ts main output is called a		
							[1]
7	'(a)	3D pi	rinter				
7	(b)	LCD	Monitor				
7	(c)	Buzz	er				

8 Tablet computers tend to be used more than desktop computers.

Describe the advantages and disadvantages of using a tablet computer rather than a desktop computer.

## Max four from: Advantages Tablet computers are more portable Can be used in more places than a desktop computer Smaller footprint as the units are not separate Powered by battery so can be used away from a power supply Internet connection may be better as device is portable Max four from: Disadvantages Tablet computers are easier to steal/lose As the elements of a desktop computer are separate they are easier to upgrade/tablet computers are one unit Batteries can run out/desktop computers have less chance of running out of power Screens are smaller Keyboard tends to be onscreen/touch screen therefore can be harder to use No mouse therefore pointing devices/touchscreen can be harder to use Webcams tend to be static therefore harder to use [6] Less standard ports/sockets Desktop computers have a better heat dispersion rate Desktop computers are less likely to be damaged as they are not portable.

 14	Six from:	
	Internal storage examples RAM and ROM	
	Internal storage is chip based	
 -	Backing storage can be solid state, optical or magnetic	
	Backing storage is permanent storage	
 -	RAM loses memory when computer is turned off	
	RAM contains current instruction	
	ROM contains instructions to boot up the computer	
 -	Backing storage has slower access speeds	
	More storage in backing storage	

1 There are two types of software: applications and system.

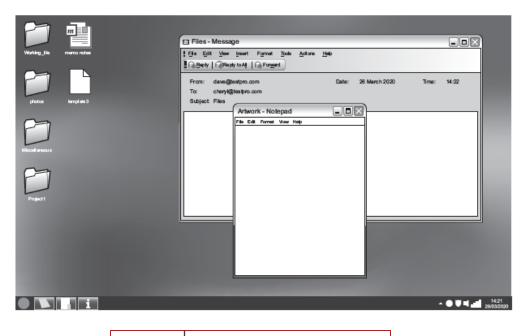
Tick  $(\mbox{\em {\checkmark}})$  the most appropriate type of software for each of the following.

	Applications (√)	System (√)
Device driver		
Linker		
Photo-editing software		
Spreadsheet		

	Applications	System
Device driver		✓
Linker		✓
Photo-editing software	✓	
Spreadsheet	✓	

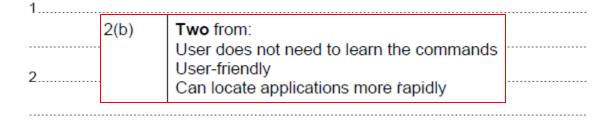
Two marks for four correct ticks One mark for two or three correct ticks Zero marks for one correct tick [2]

2 (a) Write down the type of interface shown.



2(a) Graphical User Interface [1]

(b) Write down two advantages of using this type of interface.



[2]

The u	use of <mark>laptop co</mark>	mputers and	tablet comp	<mark>outers</mark> by people on	the move is bed	coming very po	opular.
Desci	cribe <b>four</b> adva	<u>ntages</u> of usi	ng a tablet	computer rather th	an a laptop con	nputer.	
3	Faster si Lighter a Don't ge Battery I Smaller Easier to Less sus Less par	witch on as not smaller nerate as not feetends to footprint ouse the to teeptible to teeptible to is easier to	than a la nuch hea last long uch scree viruses rate perip use		therefore mo	ore portable	
						Oct/N	[4] [ov2020/1
Com	plete the ques	tion using an	appropriate	item from the list	given.	<b>L</b>	
	plete the ques	tion using an		item from the list of the Hard disk drive	given. Keyboard	Laser print	er
Blu-ra			M drive			Laser print	er
Blu-ra LC	ray disc drive CD monitor Identify <b>two</b> ou	DVD RAI Magnetic ta	M drive ape drive from the list	Hard disk drive Mouse	Keyboard Pen drive	SSD	er
Blu-ra LC	ray disc drive CD monitor Identify <b>two</b> ou	DVD RAI Magnetic ta	M drive ape drive from the list	Hard disk drive  Mouse t.	Keyboard Pen drive	SSD	er
Blu-ra LC (a) I	ray disc drive CD monitor Identify <b>two</b> or 1	DVD RAI Magnetic ta	M drive ape drive from the list	Hard disk drive  Mouse t.  m the list.	Keyboard Pen drive	SSD	
Blu-ra LC (a) I	ray disc drive CD monitor Identify <b>two</b> or 1	DVD RAI Magnetic ta	M drive ape drive from the list	Hard disk drive  Mouse t.  m the list.	Keyboard Pen drive	SSD	
Blu-ra LC (a) I	ray disc drive CD monitor Identify <b>two</b> or 1	DVD RAI Magnetic ta	M drive ape drive from the list	Hard disk drive  Mouse t.  m the list.	Keyboard Pen drive	SSD	 [2]

2 The Central Processing Unit consists of three components.

Tick (✓) whether the following statements refer to the ALU, the Control unit or the Main memory.

	ALU (✓)	Control unit (✓)	Main memory (✓)
This is the immediate access storage			
This carries out the calculations			
This carries out logical decisions			
This directs the input and output flow in the CPU			

[4]

	ALU (√)	Control Unit (√)	Main memory (√)
This is the immediate access storage			✓
This carries out the calculations	✓		
This carries out logical decisions	✓		
This directs the input and output flow in the CPU		<b>√</b>	

			_		_	_		
$\mathbf{\Omega}$	4	/TAT	ov?	n	17	N.	/1	1

12	A te	acher is teaching students about history using a virtual reality (VR) system.
	(a)	Identify three devices that could be used with a VR system.
		1
		2
		3
		[3]
	(b)	The teacher carefully monitors the students' use of the VR system. She only allows them 20 minutes on the device before taking a break. This is to ensure that they remain healthy whilst using it.
		Identify three health problems associated with the prolonged use of VR systems.
		Problem 1
		Problem 2
		Problem 3
12(a)		Three from: Controller wand/joystick/control buttons/microphone Tracking/force balls//trackpads//trackers Treadmill/motion platforms Pressure mats Data gloves/bodysuits Head mounted display/head mounted device/projector Headset/head mounted device/ear mounted device Goggles/VR eyeglasses Steering/gaming wheels/consoles Pedals/Paddles Cameras Motion sensors
		12(b) Three from: Eye problems/strain Neck pain/back pain Headaches Balance problems/motion sickness Tiredness

Injuries caused by being too involved in the VR system

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

Bar	code reader	Blu-ray drive	DVD drive	Hard Disk Driv	e Keyboard
Me	emory stick	Mouse	Optical Character Reader	SSD	TFT monitor
(a)	1		devices from the list.		
	2				[2]
(b)	•		evices from the list.		
	2	1(a	) SSD Memory stick		[2]
		1(b	) Bar code reader Optical Characte		
A c	omputer system o	consists of a nu	mber of different items of ha	ardware.	
Wri	te down the most	t appropriate ite	m of hardware that fits the f	ollowing descrip	tions.
(a)	A non-volatile d	evice that store	s the start-up commands.		

(c)	A hardware device that reads analogue data from the environment.	
		[1]

......[1]

3(a)	ROM/Read Only Memory
3(b)	3D printer
3(c)	Sensor

(b) A printer that produces physical objects.

3

Oct/Nov2020/12

12	Describe the differences between using a Graphical User Interface (GUI) and a Command Line Interface (CLI).
	[4]

SPECIMEN PAPER 2020/01

11 Smartphones use touch screen technology that requires a Graphical User Interface (GUI).

Describe **four** advantages of users having a GUI on a smartphone rather than a Command Line Interface (CLI).

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1	 
2	
3	
4	
	 [4]

Question	Answer	Marks
11	Four advantages from	4
	GUI allows the use of pinching, scrolling and expanding but CLI does not allow this	
	Icons speed up finding instructions, with CLI you have to type out the commands in full	
	GUI is more visual therefore finding commands is quicker	
	If a mistake is made in CLI it could have major consequences whereas in GUI a mistake has less impact	
	GUI allows more multi-tasking	
	GUI is faster to operate and more efficient as it uses a finger/stylus rather than a keyboard	
	GUI is more user friendly; with CLI the commands have to be memorised In CLI several commands have to be typed in rather than one command in GUI	
	GUI has more system resources Easier to remote access with GUI Fewer health problems	
	eye strain, carpal tunnel syndrome	

SPECIMEN PAPER 2016/01

	true	false
Computer programs are examples of hardware.		

Computer programs are examples of hardware.	
A Command Line Interface is a form of operating system.	
A tablet computer is larger than a desktop computer.	

A compiler is an example of applications software.

Tick **true** or **false** next to each of these statements.

[2]

3

	true	false
Computer programs are examples of hardware.		✓
A Command Line Interface is a form of operating system.	✓	
A tablet computer is larger than a desktop computer.		✓
A compiler is an example of applications software.		✓

4 correct answers – 2 marks

2 or 3 correct - 1 mark 1 c

correct – 0 marks	
	r

1 correct – 0 marks	[2]
	SPECIMEN PAPER <b>2016/01</b>

Describe the differences between RAM and ROM.
[4]

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1	1	ا An	/ fo	ur f	rom.
		/ \ \ \ \ \			

- ROM cannot be changed
- RAM can be read from and written to
- ROM is read only memory and RAM is random access memory
- ROM holds instructions that need to be unchanged, such as BIOS/program cycles in a washing machine/program instructions in games
- RAM holds the work that is currently being done by the user

[4]

SPECIMEN PAPER 2016/01

14 A company uses robots to manufacture cars.

Tick three advantages for the company of using robots rather than humans to manufacture cars.

	✓
Robots produce the same standard every time.	
Robots don't cost very much to buy.	
Robots don't need programming to perform a task.	
Robots are more accurate.	
Workers are no longer employed.	
Robots don't take breaks.	
Robots can think for themselves.	
Robots never make mistakes.	

[3]

## 14 1 mark for each correct tick

Robots produce the same standard every time.	✓
Robots don't cost very much to buy.	
Robots don't need programming to perform a task.	
Robots are more accurate.	✓
Workers are no longer employed.	
Robots don't take breaks.	✓
Robots can think for themselves.	
Robots never make mistakes.	

[3]

February/March 2019/12

2 Tick whether the following are examples of System Software or Applications Software.

	System Software (✓)	Applications Software ( )</th
Compiler		
Word processing software		
Spreadsheet software		
Operating system		

[2]

February/March	2019/12
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Question		Answer		Marks
2		System Software (√)	Applications Software (√)	2
	Compiler	✓		
	Word processing software		✓	
	Spreadsheet software		✓	
	Operating system	✓		
	4 correct ticks – 2 mark 2 or 3 correct ticks – 1 1 correct tick – 0 marks	mark		

3	Command Line Interface (CLI) and Graphical User Interface (GUI) are examples of interfaces
	found in computer systems.

Give tw	o advantages	of a computer	r having a GU	JI rather than a	CLI.

		[2]

Question	Answer	Marks
3	Two from: The user does not have to learn/remember commands More user friendly Can be used on more devices e.g. smartphones A mouse/finger can be used to select icons Using a mouse/finger is simpler than typing in commands Fewer errors are made than typing in commands	2

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2	O:I- 4	vo items which	L		I I	.1
•	( :Ircia TM	VA ITAME VV/NI	'n ard liedd	i ac intornai	naraw/ara	70\/ICQ

Keyboard

Linker

Mouse

Printer

Processor

Sound card

[2]

Question	Answer	Marks
3	Sound card	1
	Processor	1

- 5 A virtual reality (VR) system is being used to train workers in a nuclear power station.
  - (a) Name two input devices that could be used with VR systems in this environment.

1	1	 												

[2]

[2]

(b) Name two output devices that could be used with VR systems in this environment.

1	 	 

(c) Tick whether the following examples refer to VR or Robotics.

	VR (√)	Robotics (√)
Inserting a car engine into a real car.		
Training a medical student to carry out an operation using a computer simulation.		
Controlling a production line to manufacture pasta.		
Taking a tour of a house before it has been built.		

[2]

Question	
5(a)	Two from:  Wand/joystick Pressure mats Data gloves/gloves with sensors Head mounted device(HMD)/Microphones Steering wheels/consoles Pedals Paddles Cameras Motion sensors
5(b)	Two from:  Headset/head mounted displays/goggles Speaker/headphones Monitor/projector Olfactory devices Haptic/tactile Virtual Retina Display (VRD)

Question		Answer			Marks
5(c)			VR	Robotics	2
		Inserting a car engine into a real car.		✓	
		Training a medical student to carry out an operation using a computer simulation.	✓		
		Control a production line to manufacture pasta.		✓	
		Taking a tour of a house before it has been built.	✓		
	1 mark for 2	4 correct ticks or 3 correct ticks ) or 1 correct tick			

May/June	2019/11
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[6]

ò	IT technicians are setting up a new file server for a school.
	Describe the benefits and drawbacks of using a command line interface (CLI) rather than a graphical user interface (GUI) to set up a new file server.

Question	Answer	Marks
6	Six from:	6
	Benefits	
	The user is not restricted to the predetermined options//the GUI uses icons and set menus	
	The user has more control over the computer settings//in GUI computer settings are protected from the user	
	Uses less memory than GUI	
	Requires less processing power for the interface	
	More processing power is made available for the task	
	Drawbacks	
	The commands used have to be learnt	
	The commands used have to be remembered	
	The commands used have to be typed in/entered exactly	
	Have to remember the exact path/correct name of application	
	More prone to errors on data entry	
	Commands have to be typed in//in a GUI can use touchscreens/mice	
	Tends to be used by specialist people//GUI is more user-friendly and can be used by non-experts	
	To gain full marks both benefits and drawbacks are required	

May/June	2019/12
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1	A co	omputer consists of hardware and software.	
	(a)	State what is meant by hardware.	
			[1]
	(b)	State what is meant by software.	
			[1]
(c)	Th	ere are two types of software.	
	Na	me <b>one</b> of the two types of software used by a computer.	
			[1]
(d)	Na	me the piece of hardware found in a tablet computer that is both an input and output dev	ice.
			[1]

Question	Answer	Marks
1(a)	Physical components of a computer system	1
1(b)	One from:  Programs for controlling the operation of a computer Programs for processing of data	1
1(c)	One from:  System Applications	1
1(d)	Touchscreen	1

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iviay/ouric	2010/12

2 There are many types of data storage. Tick whether the following statements are examples of read-only memory (ROM), random access memory (RAM) or a hard disk drive (HDD).

	ROM (√)	RAM (√)	HDD (√)
It loses its data when the computer is switched off.			
It is classed as backing storage.			
It stores the start-up instructions of the computer.			
It temporarily stores the current work of the current user.			

[4]

Question	Answer				Marks
2		ROM	RAM	HDD	4
	It loses its data when the computer is switched off.		✓		
	It is classed as backing storage.			✓	
	It stores the start-up instructions of the computer.	1			
	It temporarily stores the current work of the current user.		<b>✓</b>		

2 Tick the most appropriate type of computer that matches each description.

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	Desktop (√)	Laptop (✓)	Smartphone (✓)
A portable computer that would most easily fit into your pocket			
A computer that is not powered by batteries			
A computer that has the smallest screen			
A portable computer with a keyboard and with a built-in 15 inch monitor			

[4]

May/June 2	201	9/13
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Question		Answer			Marks
2		Desktop	Laptop	Smartphone	4
	A portable computer that would most easily fit into your pocket			<b>✓</b>	
	A computer that is not powered by batteries	<b>√</b>			
	A computer that has the smallest screen			~	
	A portable computer with a keyboard and with a built-in 15 inch monitor		<b>✓</b>		

5	A co	A computer contains system software and applications software.						
(a) Explain what is meant by system software.								
					[1]			
	(b)	Explain what is meant by applications	s software.					
					[1]			
	(c)	Circle two types of system software.						
		Actuator	Linker	Operating system				

[2]

Spreadsheet

Sensor

Photo-editing software

Question	Answer	Marks
5(a)	One from:	1
	Programs that control and manage the computer's hardware//it runs the applications software Interface between the computer hardware and the user applications	
5(b)	Programs that allow the user to carry out specific tasks	1
5(c)	Linker Operating system	2

February/March 2018/12

1 Complete the following sentences, using items from the list below.

Applications	A bar code reader	A compiler	A CPU	Hardware
A monitor	A printer	A scanner	System	USB
(a)	software is	designed to manage	e computer hard	ware. [1]
(b)	software ex	amples include word	d processing and	spreadsheets. [1]
(c)	produces o	output in the form of	hard copy.	[1]
(d)	converts hi	gh-level language p	rograms into ma	chine code. [1]

Question	Answer	Marks
1(a)	System	1
1(b)	Applications	1
1(c)	A printer	1
1(d)	A compiler	1

7 Tick the **three** most accurate statements regarding computer hardware.

	Tick (√)
CPU means Computer Processing Unit	
Data in RAM is not lost when the computer is turned off	
ROM is Read Only Memory	
A printer is an input device	
A touch screen can be an input device and an output device	
The control unit is part of the CPU	
The CPU is stored on the hard disk	
A pen drive is an example of internal memory	

[3]

Question	Answer			
7		Tick (✓)	3	
	CPU means Computer Processing Unit			
	Data in RAM is not lost when the computer is turned off			
	ROM is Read Only Memory	✓		
	A printer is an input device			
	A touch screen can be an input device and an output device	<b>✓</b>		
	The control unit is part of the CPU	✓		
	The CPU is stored on the hard disk			
	A pen drive is an example of internal memory			

4 Circle the names of three devices which are used for input.

May/June 2018/11

CD writer Laser printer Pen drive Mouse

Speaker Touch screen Remote control Wide format printer

[3]

Question	Answer	Marks
4	Mouse Touch screen Remote control	3

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[2]

14	Mar	ny computer systems use virtual reality.	
	(a)	Explain what is meant by virtual reality.	
			[2]
(b)	Nar	ne <b>two</b> pieces of hardware used in virtual reality systems.	
	1		
	2		

Question	Answer	Marks
14(a)	Two from: Three-dimensional, computer generated environment It can be explored and interacted with, by a person Can manipulate objects or perform a series of actions Replicates an environment Makes use of the sensory experience	2
14(b)	Two from: Virtual reality headset / head mounted display / Virtual reality goggles Speakers / headphone The tactile glove Joystick / controllers / driving wheel	2

1	A c	omputer contains internal hardware.	
	Wri	te down the most appropriate item of internal hardware to match the descriptions.	
	(a)	This handles all the system instructions.	
			[1]

(b) A printed circuit board that contains the main components of the computer.

[1]

(c) This generates output to the speaker.

(d) A type of memory where data is lost when the computer is switched off.

Question	Answer	Marks
1(a)	Processor / CPU	1
1(b)	Motherboard	1
1(c)	Sound card	1
1(d)	RAM / Random Access Memory	1

5 Circle two items which are used as external storage media.

CD RW Hard disk Monitor
Mouse RAM ROM

[2]

Question			Answer
5	CD RW	Hard disk	Monitor
	Mouse	RAM	ROM

1 A computer contains internal hardware.

Write down the item of internal hardware from the list to match the descriptions.

С	D ROM	Internal hard disk	Network card	RAM	ROM	
Soi	und card	Touch screen	Trackerball	Video card	Wide format printer	
(a)	Stores the	start-up instructions for	-			[1]
(b)	A magnetic	medium that stores ap	oplications when t	hey are not in u		[1]
(c)	Memory wh	nere data is lost when t	the computer is tu	med off.		[1]
(d)		images to display on th				[1]

Question	Answer	Marks
1(a)	ROM	1
1(b)	Internal hard disk	1
1(c)	RAM	1
1(d)	Video card	1

2 For each application tick the most appropriate type of computer to match the description.

	Desktop (√)	Laptop (√)	Smartphone (√)
A computer that is only used in one place.			
Must always be connected to an external power source to work.			
Small enough to fit into a pocket.			
A mobile device with a large keyboard and display.			

[4]

Question	Answer			Marks	
2		Desktop (√)	Laptop (✓)	Smartphone (✓)	4
	A computer that is only used in one place.	<b>✓</b>			
	Must always be connected to an external power source to work.	<b>✓</b>			
	Small enough to fit into a pocket.			<b>√</b>	
	A mobile device with a large keyboard and display.		<b>√</b>		

4 Circle two items which are used as output devices.

3D printer	Magnetic tape	Microphone
Monitor	Sensor	Web cam

[2]

Question	Answer	Marks
4	3D printer Monitor	2

1 Tick whether the following are examples of applications software or system software.

	applications software (✓)	system software (✓)
Control software		
Compiler		
Word processing		
Device drivers		

[2]

Question		Answer		Marks
1		applications software (√)	system software (√)	2
	Control software	✓		
	Compiler		✓	
	Word processing	✓		
	Device drivers		✓	
	2 marks for 4 correct ticks 1 mark for 2 or 3 correct ticks 0 marks for 0 or 1 tick			

Describe the benefits and drawbacks of using a Graphical User Interface (GUI) rather than a Command Line Interface (CLI).

Question	Answer	Marks
5	Benefits Max three from: Easier to use as no need to type commands No need to memorise/learn commands Can exchange data between different applications Better help facilities  Drawbacks Max three from: Takes up more RAM/hard disk space/memory Can be slower for experienced programmers to use. Can be slower to run as graphics have to be loaded/larger program Restrictive can only use pre-defined functions Not in direct contact with OS/computer	4

1 Complete the following sentences, using items from the list.

3D þ	orinter	backing storage	CPU	hardware	RAM
ROI	M	scanner	software	touchscreen	wide format printer
(a)	The core co	omponent in a computer	that controls a	rithmetic operations	is called a
					[1]
(b)	The physica	al components of a com	puter are collec	ctively called	
					[1]
(c)	The type of	memory that is volatile	is called		
					[1]
(d)	An output d	evice that is also an inp	out device is cal	led a	
					[1]

Question	Answer	Marks
1(a)	CPU	1
1(b)	hardware	1
1(c)	RAM	1
1(d)	touch screen	1

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1 Complete the following sentences using the most appropriate words from the list below.

hard dis	k drive	hardware	microphone	OCR	printer	
scanner		screen	software	speaker	virus	
(a)	The physic	al components of a	computer are called.			[1]
(b)	The progra	ıms and data of a co	mputer are called			[1]
(c)	The device	used to input sound	l is called a			[1]
(d)	The device	used to store data is	s called a			[1]

Question	Answer	Marks
1(a)	Hardware	1
1(b)	Software	1
1(c)	Microphone	1
1(d)	Hard disk drive	1

3 Tick whether the following statements about internal and external memory are true or false.

	true (✓)	false (✓)
A portable hard drive is an example of internal memory.		
Magnetic tape is used to store backups of data.		
RAM is internal memory.		
ROM loses its data when the power is turned off.		

[2]

Question	Answer			Marks
3		true	false	2
	A portable hard drive is an example of internal memory.		1	
	Magnetic tape is used to store backups of data.	/		
	RAM is internal memory.	1		
	ROM loses its data when the power is turned off.		1	
	4 correct ticks 2 marks 2 or 3 correct ticks 1 mark and 1 or 0 ticks no marks			

Computer operating systems have developed (CLI). Many computers now use Graphical U using touch screen technology.			
Compare and contrast CLI and GUI.			
			[8]
		,	
		<u>i</u>	May/June 2017/1:
Tick whether the following statements are tree	ıe or false		
		true (✓)	false (✓)
An actuator is an item of software.			
	uter system.		
Hardware is the physical components of a comp			1
Hardware is the physical components of a comp Software controls the operation of the computer.			

Question	Answer			Marks
2		true (✔)	false (✓)	2
	An actuator is an item of software.		1	
	Hardware is the physical components of a computer system.	1		
	Software controls the operation of the computer.	1		
	Spreadsheet is an example of systems software.		✓	
	2 marks for 4 correct ticks 1 mark for 3 or 2 correct ticks 0 marks for 1 or 0 correct ticks			

Describe the differences between ROW and RAW.

Question	Answer	Marks
9	Any four from:  ROM can only be read from whereas RAM can be read and written to ROM is non-volatile whereas RAM is volatile ROM stores the start-up instructions / boot file whereas RAM stores the current instruction ROM is needed on boot up, whereas RAM is needed during processing / storing data	4

1	e three advantages of using a desktop computer rather than a laptop computer.	
2		
	October/November	 2017/
5(b)	Any three from: As the elements are separate units there is more choice of devices/can be replaced if fails Can be easier to upgrade Easier to reduce glare on screen as it is separate Laptop more expensive for same performance Lower chance of it being stolen/lost	3
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	processing program uses a Graphical User Interface (GUI). Using examples from the wor sing program describe <b>three</b> features of a GUI.	rd
proces		
1		

Question	Answer	Marks
15	Any three from: A window plus reasonable example An icon/buttons/tabs plus reasonable example A menu/drop down menu plus reasonable example Pointer (to point to items on the menu) plus reasonable example	3

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2 Tick whether the following are examples of application or system software.

	application (√)	system (✓)
Linker		
Database management systems		
Photo-editing software		
Compiler		

[2]

Question		Answer			Marks
2		application (✓)	system (√)		2
	Linker		✓		
	Database management systems	<b>√</b>			
	Photo-editing software	<b>✓</b>			
	Compiler		✓		
	4 correct answers - 2 marks 2 or 3 correct answers - 1 mark 0 or 1 correct answers - 0 marks			-	

February/March 2016/12

1	The	re are a number of different types of computer.
	Wri	te down the type of computer that best fits the following descriptions.
	(a)	A computer that is difficult to move and has a separate monitor and keyboard.
		[1]
	(b)	A portable computer that includes a physical keyboard.
		[1]
	(c)	A thin portable computer that has a touch screen and a battery in a single unit, not normally used to make phone calls.
		[1]
	(d)	A mobile phone that can be used as a computer.
		[1]
1	(a)	PC/desktop [1]
	(b)	Laptop [1]
	(c)	Tablet [1]
	(d)	Smartphone [1]

2 Tick whether the foll (CLI) or a graphical

				Instructions h	ave to
				Applications a	ıre re
				Options are c	hosei
	CLI	GUI		Many instruct	ions l
	(✓)	(✓)			
Instructions have to be typed.	✓				

4 correct answers – 2 marks

2 or 3 correct answers – 1 mark

Applications are represented by icons.

Many instructions have to be memorised.

Options are chosen from a menu.

1 correct – 0 marks

50

[2]

Word processing

4 correct answers – 2 marks 2 or 3 correct answers – 1 mark

1 correct - 0 marks

Interpreters

Spreadsheet

**(**✓)

[2]

3 Tick whether the following statements about desktop and laptop computers are true or false.

	true (✓)	false (✔)
Most modern laptop computers have web cams built in.		
Desktop computers are not very portable.		
All desktop computers have a touchpad built in.		
Laptop computers are rarely supplied with a mouse.		

[2]

	TRUE (✓)	FALSE (√)
Most modern laptop computers have webcams built in	✓	
Desktop computers are not very portable	✓	
All desktop computers have a touchpad built in		✓
Laptop computers are rarely supplied with a mouse.	✓	

1 correct - 0 marks

1

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Wri	te down the <b>most</b> appropriate input device which matches the following descriptions:	
(a)	This is provided with a laptop to imitate the functions of a mouse.	
		[1]
(b)	This is not a mouse but is used to manoeuvre objects around the screen in computer vide games.	90
		[1]
(c)	This is used to type in text.	
		[1]
(d)	This is used for direct input of hard copy images.	
		[1]

1	(a)	Touchpad	[1]
	(b)	Joystick/trackerball	[1]
	(c)	Keyboard	[1]
	(d)	scanner	[1]

May/June 2016/12

2 Tick whether the following statements are true or false.

	true	false
	(✔)	(✔)
A microphone is an output device.		
The Control Unit is part of the Central Processing Unit.		
The Arithmetic and Logic Unit is part of the Central Processing Unit.		
A temperature sensor is an input device.		

[2]

2

	TRUE (✓)	FALSE (✓)
A mouse is an output device		<b>✓</b>
The Control Unit is part of the Central Processing Unit	✓	
The Arithmetic and Logic Unit is part of the Central Processing Unit	✓	
A temperature sensor is an input device	✓	

4 correct answers – 2 marks

2 or 3 correct answers - 1 mark

1 correct - 0 marks

[2]

				   	May/June	2016/12	
18 Discuss why di	fferent user into	erfaces requ	uire the use	of different type	es of input de	vice.	
					HW		
					ПVV		

#### Level 3 (7-8 marks)

Candidates will describe in detail at least two types of user interface

Detailed reasons why a keyboard is used with CLI systems will be given

Detailed reasons why pointing devices are used with GUI systems

Detailed reasons why different input devices relating to other different types of user interface are used may be given

Descriptions of different types of pointing device

The information will be relevant, clear, organised and presented in a structured and coherent format

Specialist terms will be used correctly and appropriately

#### Level 2 (4–6 marks)

Candidates will describe at least two types of user interface

Reasons why a keyboard is used with CLI systems will be given

Reasons why pointing devices are used with GUI systems

Reasons why different input devices relating to different types of user interface are used may be given

Different types of pointing device will be listed

For the most part, the information will be relevant and presented in a structured and coherent format

Examples will be given and will be mostly appropriate

Specialist terms will be used appropriately and for the most part correctly

# Level 1 (1–3 marks)

Candidates will identify at least one user interface

Input devices may be in the form of a list

There will be little or no use of specialist terms

Errors of grammar, punctuation and spelling may be intrusive

## Level 0 (0 marks)

Response with no valid content

#### Examples

Command Line Interface

With a CLI Instructions must be typed to get a computer to carry out an action keyboard is used to type

Typing is key component of CLI

With CLI syntax has to be precise

Devices other than a keyboard would be less accurate when entering text

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	Writ	e down the <b>most</b> appropriate input device which will enable you to:	
		type an essay	
	()		[1]
	(b)	select options from a drop down menu whilst moving the device	1.1
	(D)		[4]
	, ,		[1]
	(c)	read the temperature	
			[1]
	(d)	fly an aircraft in a video game.	
			[1]
1	(a)	Keyboard	[1]
	(b)	Mouse	[1]
	(c)	Temperature sensor	[1]
	(0)	Temperature sensor	ניו
	(d)	Joystick	[1]
		October/Novemb	er 201
1	The	October/Novemb	er 201 
1		L	
1	Wri	re are a number of different internal hardware devices.	
1	Wri	re are a number of different internal hardware devices.  te down the most appropriate type of internal hardware that fits the following descriptions	
1	Wri	re are a number of different internal hardware devices.  The down the most appropriate type of internal hardware that fits the following descriptions.  A volatile device that is used to store data.	
1	Wri	re are a number of different internal hardware devices.  te down the most appropriate type of internal hardware that fits the following descriptions.  A volatile device that is used to store data.	[1]
1	Writ	re are a number of different internal hardware devices.  te down the most appropriate type of internal hardware that fits the following descriptions:  A volatile device that is used to store data.  This is the main printed circuit board found in computer systems.	[1]
1	Writ	re are a number of different internal hardware devices.  te down the most appropriate type of internal hardware that fits the following descriptions.  A volatile device that is used to store data.  This is the main printed circuit board found in computer systems.	[1]

1	(a)	RAM	[1]
	(b)	Motherboard	[1]
	(c)	ROM	[1]
	(d)	Sound card	[1]

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2



(a)	Give the type of interface shown above.
	[1]
(b)	One of the features of this type of interface is an icon. Describe what is meant by the term icon.
	[2
(c)	Identify <b>one</b> way you would select an icon using this type of interface.
	[1]

2	(a)	Graphical User Interface or GUI	[1	1]
	(b)	An icon is a picture/image Used as a shortcut to a program/application	[2	2]
	(c)	Click/tap on it Use a pointer/gesture/mouse/enter key/pointing device	[1	1]
			   October/November 2	 2016/11
			L	
9	Vir	tual reality has an impact on everyday life.		
	(a)	Name <b>two</b> devices that could be used with a virtual reality	y system.	
		1		
			HW	
		2		
			[2	2]
(b)		tual reality systems tend to be associated with gaming, b as in everyday life.	ut they are used in many differen	t
	Giv	re two uses for virtual reality in everyday life.		
	1			
	2			
			[2	]

9	(a)	Tread Press Data Head Gogg	d or joystick dmill sure mats gloves Iset/head mounted displays/Head mounted device(HMD) gles ring/gaming wheels/consoles		
		Pado Cam	lles		
		Motio	on sensors		[2]
	(b)	Virtu Virtu Design Fligh Battle Virtu Medi Walk	from, for example: al museums al theme parks gn of sports clothing t simulation efield/combat simulation al tours cal training throughs ng simulation		2016/12
			reasonable answers	October/November	2016/12 721 F = = =
2	(a)		mputer system consists of hardware and software. ain what is meant by software.		
	(b)	Nam	e the type of software from its description.		.[2]
	(5)		This type of software lets you manage the hardware and soft	ware resources.	
					.[1]
		(ii)	Give an example of this type of software.		
					.[1]
		(iii)	This type of software lets you carry out tasks such as creatin	g a document or an ima	ge.
					.[1]
		(iv)	Give an example of this type of software.		
					.[1]

2	(a)	Two from:		
		Software is programs/set of instructions. Software controls/runs a computer system/hardware.	[2]	
	(b)	(i) System(s) (software)	[1]	
		(ii) For example: Operating system, file management system, utiliti	ies [1]	
	(	iii) Application(s) (software)	[1]	
	(	iv) For example: Word processor, spreadsheet, database	October/November 20	 16/13

1 Tick whether the following statements are true or false.

	true (✔)	false (✔)
Tablet computers have touch screens.		
Smartphones will only connect to the internet through WiFi.		
A tablet computer has a separate keyboard.		
Smartphones use a touchpad.		

[2]

Tick whether the following statements are true or false.

	true (✓)	false (√)
Tablet computers have touch screens.	✓	
Smartphones will only connect to the internet through Wi-Fi.		<b>✓</b>
A tablet computer has a separate keyboard.		<b>√</b>
Smartphones use a touchpad.		✓

[2]

4 correct answers – 2 marks

2 or 3 correct answers – 1 mark

0 or 1 correct answer – 0 marks

2



(a)	Give the	type o	of interface	shown	above.	
-----	----------	--------	--------------	-------	--------	--

	[1]
(b)	Give a disadvantage of using this type of user interface.

(c) Another type of interface is a graphical user interface (GUI).

Tick whether the following statements are true or false.

	true (✔)	false (✔)
A GUI involves the use of windows and menus.		
User interaction with a GUI is intuitive.		
A GUI takes up a lot of memory and resources.		
Users have to learn a list of system commands in order to use a GUI.		

[2]

## 2 (a) Command line interface/CLI

[1]

(b) One from:

more difficult to edit entered commands
need to know the commands
Incorrect commands can affect the operation of the computer.
Syntax needs to be exact for the program to work.

[1]

(c	:)	Tick whether the following statements are true or false.

	true (✓)	false (√)
A GUI involves the use of windows and menus.	<b>~</b>	
User interaction with a GUI is intuitive.	<b>✓</b>	
A GUI takes up a lot of memory and resources.	✓	
Users have to learn a list of system commands in order to use a GUI.		✓

[2]

4 correct answers – 2 marks

2 or 3 correct answers - 1 mark

0 or 1 correct answer - 0 marks

3 Tick whether the following statements are true or false.

	true (✔)	false (✔)
ROM is Real Optical Memory.		
RAM stores the instructions you are currently working on.		
ROM stores the BIOS.		
RAM allows the user to read and write data.		

[2]

Tick whether the following statements are true or false.

	true (√)	false (√)
ROM is Real Optical Memory.		<b>✓</b>
RAM stores the instructions you are currently working on.	✓	
ROM stores the BIOS.	✓	
RAM allows the user to read and write data.	✓	

[2]

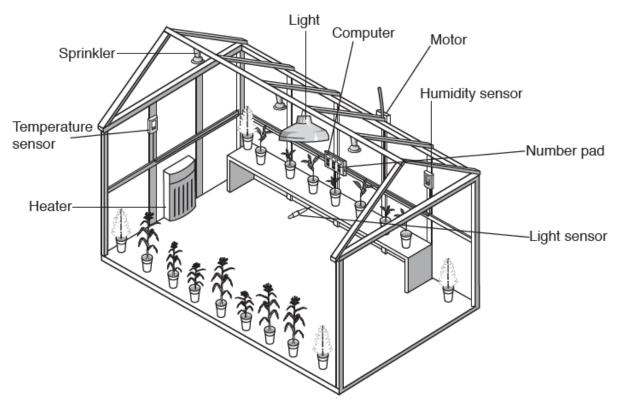
4 correct answers - 2 marks

2 or 3 correct answers - 1 mark

0 or 1 correct answer - 0 marks



This diagram shows a computer controlled greenhouse.



/ <sub>~</sub> \	Identify	throo	innut.	daviana	which	010	ahawa	in t	ha	diaaram	00000	

1	
9	
2	
3	
O	[3

(b) Identify three output devices which are shown in the diagram above.

1	
2	
2	
3	[3]

Three from:
Temperature sensor Light sensor Humidity sensor
Number pad
Three from:
Sprinkler
Heater
Light
Motor
Motor
e sensor nsor

IVIOS	si computers	nave backii	ig storage a	s well as Illa	III/IIIILEITIAI IIIE	illory (Liziwi/Lix	Jivi).
. ,							
	(a)	(a) Explain wh	(a) Explain why backing sto	(a) Explain why backing storage is need	(a) Explain why backing storage is needed.	(a) Explain why backing storage is needed.	(a) Explain why backing storage is needed.

# **11 (a) Four** from:

If computer is switched off, work in RAM is lost but backing storage stores data for future use More likely that data is accidentally deleted in RAM

RAM is more expensive than backing storage per unit of memory

RAM is bulkier than backing storage per unit of memory

Software package may be so large that it is physically impossible for RAM to store it.

Operating system may be so large that it is physically impossible for ROM to store it.

Data may need to be transferred from one computer to another and can't do that with RAM

[4]

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Describe why main/internal memory is needed.	
[	
	٠,

(b) Four from:

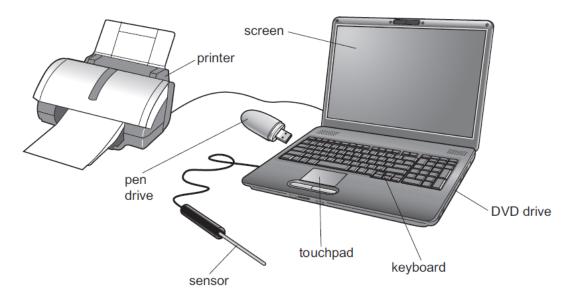
Memory is needed which cannot be changed – ROM Memory is needed which can be changed – RAM

Instructions that need to be unchanged have to be stored such as BIOS/ program cycles in a washing machine/program instructions in games

There needs to be memory that holds the work that is being currently done by the user There needs to be memory that holds the software that is being currently used by the user Non-volatile memory is needed – ROM [4

May/June 2015/11

1 This diagram shows a laptop computer being used in a measuring experiment.



	A 15 11 1			1 1 1	er e
(a)	Apart from the ke	eyboard, name tv	<b>vo</b> input devices	shown in the	diagram above.

1	
2	[2]

(b) Name two output devices shown in the diagram above.

	l	
1	2	[2]

(c) Name two storage devices shown in the diagram above.

1	
2	[2]

1	(a)	Sensor Touchpad	[1] [1]
	(b)	Printer Screen	[1] [1]
	(c)	Pen drive DVD drive	[1] [1]

May/June 2015/12

1 This diagram shows a tower PC.



(a)	Name <b>two</b> input devices apart from a keyboard and mouse, which could connect directly the tower.	y to
	1	
	2	[2]
(b)	Name <b>two</b> storage <b>devices</b> which would be available in the PC shown above.	
	1	
	2	[2]
(c)	Name <b>two</b> output devices which could connect directly to the PC shown above.	

[2]

(a) Two from:

Joystick Microphor Tracker ba

Concept k Touch scr Scanner

Digital car Graphics

Ma

Typ Pri

Re

Ma

	Input device	Output device	Storage device
Making a backup of work			✓
Typing a document	✓		
Printing out student records		✓	
Reading details from a bar code	✓		
Making a soft copy for future use			✓

May/June 2015/13

1 This diagram shows a smart phone.



(a)	Name two input devices shown on the phone diagram.	
	1	
	2	[2]
		[-]
(b)	Name one storage device which would be available in the phone shown ab	ove.
		[1]
(c)	Identify three ways the phone shown above could be used to contact a making a phone call to the bank.	bank apart from
	1	
	2	
	3	
		[3]
(a	) Two from:	$\neg$
	·	
	Touch screen Microphone	
	(Push) button	
	Camera	[2]
(k	o) One from:	
	(Flash) memory card reader	[1]
(0	:) Three from:	
	Send emails Send texts	
	Access website and send secure message	[3]

2 For each use, tick the **most** appropriate type of application software.

Use	Modelling ✓	Database ✓	Word processing ✓
Writing a letter			
Flight simulation			
Storing student records in a school			
Producing a business card			

[4]

2					
	Use	Modelling √	Database ✓	Word Processing  √	
	Writing a letter			✓	[1]
	Flight simulation	✓			[1]
	Storing student records in a school		✓		[1]
	Producing a business card			✓	[1]

3 Tick the type of computer which would be most appropriate for each use of ICT.

Use	Mainframe ✓	Laptop ✓	Desktop ✓
Entering data from a Biology survey while out of school			
Massive transactions which need the use of many CPUs			
Students who need to transport their computer from home to use in school			
Personal use with better performance at lower cost			

[4]

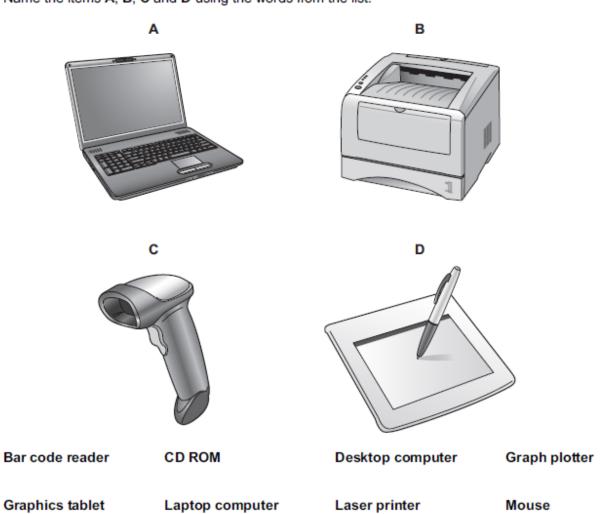
Use	Mainframe √	Laptop ✓	Desktop ✓	
Entering data from a Biology survey while out of school		<b>√</b>		[1]
Massive transactions which need the use of many CPUs	~			[1]
Students who need to transport their computer from home to use in school		✓		[1]
Personal use with better performance at lower cost			✓	[1]

May/June 2014/11

Name the items A, B, C and D using the words from the list. В D Hard disc Desktop computer Dot matrix printer Graph plotter Inkjet printer Laptop computer Optical disc Trackerball ..... ..... May/June 2014/11 Desktop computer Α [1] Inkjet printer [1] Optical disc [1] Trackerball [1] Identify two devices which are used in control systems to output data. 2 2 [2]



1 Name the items A, B, C and D using the words from the list.



1	Α	Laptop computer	[1]
	В	Laser printer	[1]
	С	Bar code reader	[1]
	D	Graphics tablet	[1]

2 Identify two input devices which are used in mobile phones when making a phone call.

1	
2	 [2]

2 Two from:
Touch screen
Microphone
Buttons
Keypad [2]

May/June 2014/13

1 Name the items A, B, C and D using the words from the list.





В



Ba	r Code Reader	CD ROM Drive		Digital Camera	Joystick
Me	mory Stick	Mouse		Speakers	Web cam
Α			В		
С			D		[4]
1	A Speakers B Web cam C Joystick D Memory stick				[1] [1] [1] [1]
2	Identify <b>two</b> features of a	Graphical User Interf	ace.		
	2			-    -	May/June 2014/13
2	Two from: Windows Icons Menus Pointer/Pointing device				[2]
3	Complete the table below	w by identifying an ap	prot	oriate type of <b>software</b> y	which would be used to

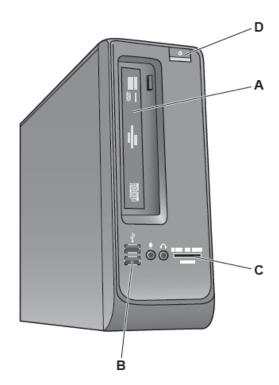
3 Complete the table below by identifying an appropriate type of software which would be used to carry out each of the following tasks.

Software	Task
	Typing a letter
	Calculating profit and loss
	Viewing pages on the Internet
	Creating a slide show

[4]

Software	Task	
Word processing/DTP	Typing a letter	[1]
Spreadsheet	Calculating profit and loss	[1]
Web browser	Viewing pages on the internet	[1]
Presentation	Creating a slide show	[1]
		October/November 2014

1 Here is a PC tower. Name the items A, B, C, and D using different words from the list.



Α	 В	
С	 D	[4]

LED

optical disc drive

LCD

on/off button

**USB** ports

hard disk drive

memory card slot printer leads

1	optical disc drive memory card slot	D/- (f	October/November 2014/11
	memory card slot	D On/on ballon	

4 Tick the box which best describes each of the following items.

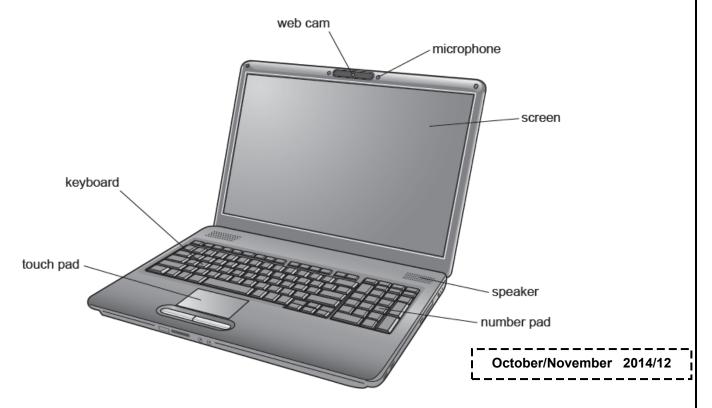
	Hardware	Software
Spreadsheet		
Digital camera		
Bar code reader		
Web page authoring program		

[4]

	Hardware	Software
Spreadsheet		✓
Digital camera	<b>✓</b>	
Bar code reader	<b>✓</b>	
Web page authoring program		✓

October/November 2014/12

1 This diagram shows a laptop computer.



(a) Name two input devices shown in the diagram above.

1	
-	
4	
	[2]
Ν	dame two output devices shown in the diagram shows

(b) Name two output devices shown in the diagram above.

1	
2	
	[2

1	(a)	Two from: Number pad Keyboard Microphone	
		Web cam Touchpad	[2]
	(b)	Screen Speaker	[1] [1]

4 Complete the table below by identifying the most appropriate type of software which would be used to carry out each of the following tasks.

Software	Task	
	Monitoring atmospheric pressure	
	Keeping temperature constant in a greenhouse	
	Modelling personal finances	
	Creating a slideshow	
	Finding information on the intern October/Novemb	er 2014/12
		[5]

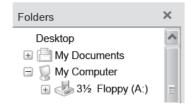
Software	Task	
Measuring program	monitoring atmospheric pressure	] [
Control program	keeping temperature constant in a greenhouse	] [
Spreadsheet	Modelling personal finances	] [
Presentation software	Creating a slide show	
Search engine	finding information on the internet	

6 (a) Write down the type of interface shown in the picture below.



.....[1]

(b) Write down the type of interface shown in the picture below.



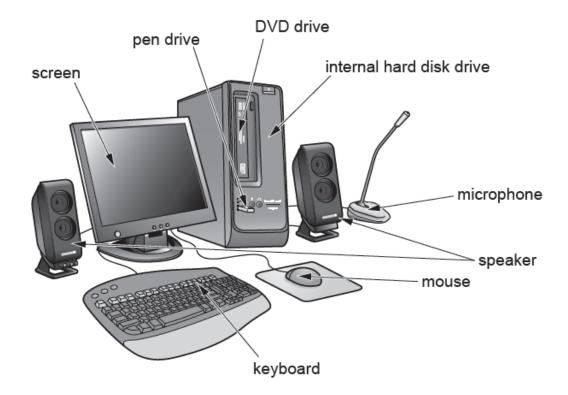
\_\_\_\_\_[1

6 (a) Command Line Interface/CLI [1]

(b) Graphical User Interface/GUI [1]

October/November 2014/13

1 This diagram shows a desktop computer.



(a)	Na	ame <b>two</b> input devices shown in the diagram above.	
	1.		
	2 .		
(b)	Na	ame <b>two</b> output devices shown in the diagram above.	[2]
	1.		
	2.		
(c)		ame <b>two</b> storage devices shown in the diagram above.	[2]
	1.		
	_	<u>-</u>	
	2 .	i	
	2 .	i	October/November 2014/13
1		Two from:	
1		Two from: Microphone	
1		Two from:	
1		Two from: Microphone Keyboard	<sub>[z]</sub>
1	(a)	Two from: Microphone Keyboard Mouse	[2]
1	(a)	Two from: Microphone Keyboard	<sub>[z]</sub>
1	(a)	Two from: Microphone Keyboard Mouse  Speakers	[2]
1	(a) (b)	Two from: Microphone Keyboard Mouse  Speakers Screen  Two from:	[2]
1	(a) (b)	Two from: Microphone Keyboard Mouse  Speakers Screen  Two from: DVD drive	[2]
1	(a) (b)	Two from: Microphone Keyboard Mouse  Speakers Screen  Two from:	[2]
1	(a) (b)	Two from: Microphone Keyboard Mouse  Speakers Screen  Two from: DVD drive Internal hard disc drive	[2] [1] [1]