

# ICT

0417 Paper 1

2020 — 2025

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1 - (0417/11\_Summer\_2020\_Q1)



A computer consists of both hardware and software.

(a) Define the term software.

.....

.....

.....

.....

[2]

(b) There are two types of software.

Identify the types.

1.....

.....

2.....

.....

[2]

2 - (0417/11\_Summer\_2020\_Q2)



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		
The user does not need to learn any of the instructions		
Each instruction has to be typed in correctly		
The user is in direct communication with the computer		

[2]

3 - (0417/11\_Summer\_2020\_Q3)



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

(a) Describe the CPU including its role.

.....

.....

.....

.....

.....

.....

.....

.....

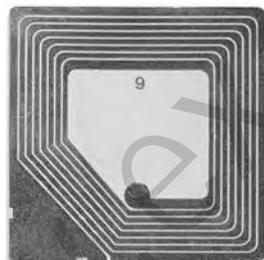
.....

.....

[4]

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

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



Cheque No.	Branch Code	Account No.	Transaction Code
05482	55448	654478	25447

.....

.....



.....

.....

[4]

4 - (0417/11\_Summer\_2020\_Q7) **ANSWER**

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.

..... [4]

5 - (0417/12\_Summer\_2020\_Q2) **ANSWER**

```

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C:\users\Test >_

```

(a) Write down the type of interface shown.

..... [1]

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

1.....

.....

2.....

.....

[2]

6 - (0417/12\_Summer\_2020\_Q8)



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.

..... [6]

7 - (0417/13\_Summer\_2020\_Q1)



There are two types of software: applications and system.

Tick (✓) the most appropriate type of software for each of the following.

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

[2]

8 - (0417/13\_Summer\_2020\_Q5)



The use of laptop computers and tablet computers by people on the move is becoming very popular.

Describe **four** advantages of using a tablet computer rather than a laptop computer.

1 .....

2 .....

3 .....

4 .....

[4]

9 - (0417/11\_Winter\_2020\_Q2)



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]

10 - (0417/11\_Winter\_2020\_Q12)



A teacher is teaching students about history using a virtual reality (VR) system.

Identify **three** devices that could be used with a VR system.

1 .....

2 .....

3 .....

[3]

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 .....

[3]

1 - (0417/11\_Summer\_2020\_Q1)



(a)	<b>Two</b> from: Software is programs and data Programs for controlling the operation of a computer Programs for processing of electronic data	<b>2</b>
(b)	System software Applications software	<b>2</b>

2 - (0417/11\_Summer\_2020\_Q2)



		<b>CLI</b>	<b>GUI</b>	<b>2</b>
	The user has to type in every instruction	✓		
	The user does not need to learn any of the instructions		✓	
	Each instruction has to be typed in correctly	✓		
	The user is in direct communication with the computer	✓		
Two marks for four correct ticks One mark for two or three correct ticks Zero marks for one correct tick				

3 - (0417/11\_Summer\_2020\_Q3)



(a)	<b>Four</b> from: An item of hardware It carries out the instructions of a computer program It performs basic arithmetic calculations It performs logical operations It performs input/output operations of the computer It contains the internal storage/control unit	<b>4</b>
(b)	(i) RFID reader (ii) Magnetic Ink Character Reader/MICR (iii) Bar code reader (iv) Chip reader	<b>4</b>

4 - (0417/11\_Winter\_2020\_Q7)



	<p>Max <b>three</b> from:</p> <p><i>Advantages</i>  All elements are together in one unit therefore takes up less space  They are portable  Can be used in more places than a desktop</p> <p>Max <b>three</b> from:</p> <p><i>Disadvantages</i>  Easier to steal/lose  Limited battery life so more likely to run out of power  Pointing devices can be more difficult to use  In built webcams can be more difficult to use rather than a desktop  If one piece of hardware breaks it can be more difficult to replace  Desktops have a better heat dispersion rate  More likely to be damaged as they are portable.  Screen size may be smaller  Less powerful</p>	<b>4</b>
--	--	----------

5 - (0417/12\_Summer\_2020\_Q2)



(a)	Command Line Interface/CLI	<b>1</b>
(b)	<p><b>Two</b> from:</p> Have to remember/learn the commands Have to type in the commands <u>accurately</u> Difficult to edit once commands typed in	<b>2</b>

6 - (0417/12\_Summer\_2020\_Q8)



<p>Max <b>four</b> from:</p> <p><i>Advantages</i>                  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</p> <p>Max <b>four</b> from:</p> <p><i>Disadvantages</i>                  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                  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.</p>	<p><b>6</b></p>
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7 - (0417/13\_Summer\_2020\_Q1)



	<table border="1"> <thead> <tr> <th style="width: 40%;"></th> <th style="width: 20%;">Applications</th> <th style="width: 20%;">System</th> </tr> </thead> <tbody> <tr> <td>Device driver</td> <td></td> <td style="text-align: center;">✓</td> </tr> <tr> <td>Linker</td> <td></td> <td style="text-align: center;">✓</td> </tr> <tr> <td>Photo-editing software</td> <td style="text-align: center;">✓</td> <td></td> </tr> <tr> <td>Spreadsheet</td> <td style="text-align: center;">✓</td> <td></td> </tr> </tbody> </table>		Applications	System	Device driver		✓	Linker		✓	Photo-editing software	✓		Spreadsheet	✓			<p><b>2</b></p>
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<p>Two marks for four correct ticks                  One mark for two or three correct ticks                  Zero marks for one correct tick</p>																		

8 - (0417/13\_Summer\_2020\_Q5)



	<p><b>Four from:</b>  Faster switch on as the operating system does not need to load  <u>Lighter and smaller than a laptop computer</u> therefore more portable  Don't generate as much heat  Battery life tends to last longer  Smaller footprint  Easier to use the touch screen as the keyboard is not in the way  Less susceptible to viruses  Less parts//no separate peripherals, such as a mouse  Camera is easier to use</p>	<b>4</b>
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9 - (0417/11\_Winter\_2020\_Q2)



		<b>ALU</b> (✓)	<b>Control Unit</b> (✓)	<b>Main memory</b> (✓)	<b>4</b>
	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		✓		