

ICT

0417 Paper 1

2020 — 2024

Chapter 1	TYPES AND COMPONENTS OF COMPUTER SYSTEMS	Page 1
Chapter 2	INPUT AND OUTPUT DEVICES	Page 37
Chapter 3	STORAGE DEVICES AND MEDIA	Page 75
Chapter 4	NETWORKS AND THE EFFECTS OF USING THEM	Page 91
Chapter 5	THE EFFECTS OF USING IT	Page 140
Chapter 6	ICT APPLICATIONS	Page 178
Chapter 7	THE SYSTEMS LIFE CYCLE	Page 258
Chapter 8	SAFETY AND SECURITY	Page 285
Chapter 9	AUDIENCE	Page 360
Chapter 10	COMMUNICATION	Page 369
Chapter 11	FILE MANAGEMENT	Page 395
Chapter 12	IMAGES	Page 405
Chapter 13	LAYOUT	Page 416
Chapter 14	STYLES	Page 431
Chapter 15	PROOFING	Page 439
Chapter 16	GRAPHS AND CHARTS	Page 449
Chapter 17	DOCUMENT PRODUCTION	Page 466
Chapter 18	DATA MANIPULATION	Page 487
Chapter 19	PRESENTATIONS	Page 548
Chapter 20	DATA ANALYSIS	Page 553
Chapter 21	WEBSITE AUTHORING	Page 581
	ANSWERS	Page 595

1 - (0417/11_Summer_2020_Q1) - Types And Components Of Computer Systems

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) - Types And Components Of Computer Systems

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) - Types And Components Of Computer Systems, Input And Output Devices

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

(a) Describe the CPU including its role.

.....

.....

.....

.....

.....

.....

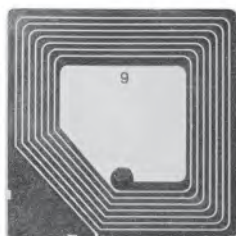
.....

.....

[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) - Types And Components Of Computer Systems

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) - Types And Components Of Computer Systems

Tawarasoft [Version 12.1.2/213.162]
(c) 2020 Tawarasoft Ltd. All rights reserved.

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]

[2]

ANSWERS

1 - (0417/11_Summer_2020_Q1) - Types And Components Of Computer Systems

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

2 - (0417/11_Summer_2020_Q2) - Types And Components Of Computer Systems

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

3 - (0417/11_Summer_2020_Q3) - Types And Components Of Computer Systems, Input And Output Devices

(a)	Four 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	4
(b)	(i) RFID reader (ii) Magnetic Ink Character Reader/MICR (iii) Bar code reader (iv) Chip reader	4

4 - (0417/11_Summer_2020_Q7) - Types And Components Of Computer Systems

	Max three from: <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 Max three from: <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	4
--	--	----------

5 - (0417/12_Summer_2020_Q2) - Types And Components Of Computer Systems

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

6 - (0417/12_Summer_2020_Q8) - Types And Components Of Computer Systems

	Max four from: <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 Max four from: <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.	6
--	---	----------

7 - (0417/13_Summer_2020_Q1) - Types And Components Of Computer Systems

	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"></th><th style="width: 30%;">Applications</th><th style="width: 30%;">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> Two marks for four correct ticks One mark for two or three correct ticks Zero marks for one correct tick		Applications	System	Device driver		✓	Linker		✓	Photo-editing software	✓		Spreadsheet	✓		2
	Applications	System															
Device driver		✓															
Linker		✓															
Photo-editing software	✓																
Spreadsheet	✓																

8 - (0417/13_Summer_2020_Q5) - Types And Components Of Computer Systems

	Four from: 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	4
--	--	----------