



Cambridge IGCSE™

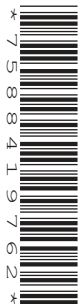
CANDIDATE
NAME

CENTRE
NUMBER

--	--	--	--	--

CANDIDATE
NUMBER

--	--	--	--



INFORMATION AND COMMUNICATION TECHNOLOGY

0417/13

Paper 1 Theory

October/November 2020

2 hours

You must answer on the question paper.

No additional materials are needed.

INSTRUCTIONS

- Answer **all** questions.
- Use a black or dark blue pen.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answer to each question in the space provided.
- Do **not** use an erasable pen or correction fluid.
- Do **not** write on any bar codes.
- You may use an HB pencil for any diagrams, graphs or rough working.

INFORMATION

- The total mark for this paper is 100.
- The number of marks for each question or part question is shown in brackets [].
- No marks will be awarded for using brand names of software packages or hardware.

This document has **16** pages. Blank pages are indicated.

1 A desktop computer consists of both hardware and software. The software is either applications software or system software.

(a) Tick (✓) whether the following are examples of **applications** software or **system** software.

	applications (✓)	system (✓)
Measurement software		
Linker		
Database		
Utility software		

[2]

(b) Identify **two** internal items of hardware that could be found in a desktop computer.

1

.....

2

.....

[2]

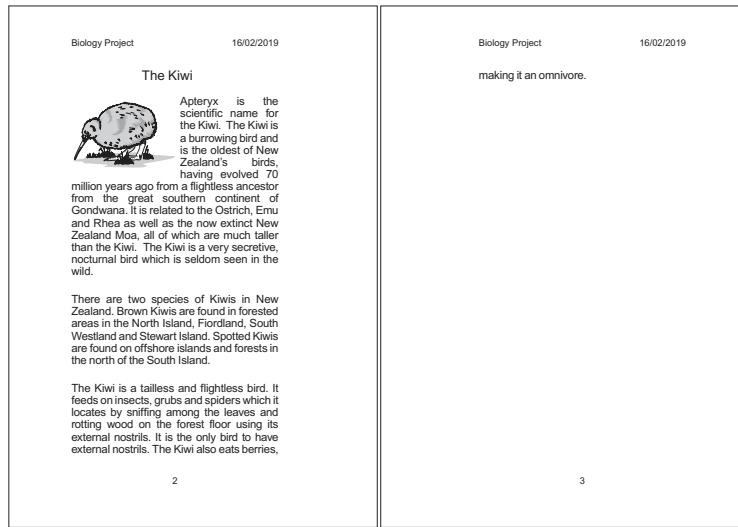
2 A computer system uses two types of documentation: technical and user. Some items only appear in the technical documentation and other items only in the user documentation, whereas some items appear in both.

Tick (✓) whether the following items appear only in **Technical documentation**, only in **User documentation** or in **Both**.

Item	Technical documentation (✓)	User documentation (✓)	Both (✓)
Algorithms			
File structures			
Error messages			
Limitations of the system			
Hardware requirements			
Glossary of terms			

[6]

- 3 A student has produced a document for her biology project. Part of the project is shown. Answer the questions relating to the document.



- (a) Give the name of the extra margin between the two pages of the document.
 [1]
- (b) Give the name of the space above the document, containing 'Biology Project' and the date.
 [1]
- (c) Name the term given to the single line of text that has overflowed on to the next page.
 [1]
- (d) Name the type of alignment used for the body text.
 [1]
- (e) The student has placed an image in the document.
 Name the type of formatting used to allow the text to flow around the image.
 [1]

4 Generic file formats allow data to be opened in any platform.

Identify **two** generic text formats.

1

2

[2]

5 When a website is created, three web development layers are used: the content layer, the presentation layer and the behaviour layer.

(a) Describe what is meant by the content layer.

.....
.....
.....
.....
.....
.....
..... [3]

(b) Describe what is meant by the presentation layer.

.....
.....
.....
.....
.....
.....
..... [3]

(c) Explain why data still needs to be validated even though it has been verified.

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... [4]

- 8 A spreadsheet has been produced showing the final places in one of the events in the 2018 Winter Olympic Games.

	A	B	C	D	E	F	G	H	I	J
1										
2	Country	Name	Heat1	Heat2	Heat3	Heat4	Total Time	Min	Seconds	
3	KOR	Yun Sungbin	50.28	50.07	50.18	50.02	200.6	3	20.55	20.6
4	LAT	Martins Dukurs	50.85	50.38	50.32	50.76	202.3	3	22.31	22.3
5	GBR	Dom Parsons	50.85	51.41	49.33	50.62	202.2	3	22.21	22.2
6	OAR	Nikita Tregubov	50.59	50.50	50.50	50.59	202.2	3	22.18	22.2
7	LAT	Tomass Dukurs	50.88	50.58	50.65	50.63	202.7	3	22.74	22.7
8	KOR	Kim Jisoo	50.80	50.86	50.51	50.81	203.0	3	22.98	23.0
9	GER	Axel Jungk	50.77	51.01	50.83	50.99	203.6	3	23.60	23.6
10										

The event consists of four heats. The times taken to complete each heat are added together to give the Total Time, in seconds. This is then displayed as minutes and seconds.

Two formulae form this calculation; they are stored in column H and column J.

The formula in cell H3 is: =INT(G3/60)

- (a) Explain what the formula in cell H3 does.

.....

.....

.....

..... [2]

The formula in cell J3 is: =ROUND(I3,1)

- (b) Explain what the formula in cell J3 does.

.....

.....

.....

..... [2]

A computer virus has been downloaded from an infected file.

(c) Describe **three** effects this could have on a computer.

1

.....

2

.....

3

.....

[3]

10 The use of ICT in organisations has changed the way in which employees work.

(a) Describe, giving an example, what is meant by compressed hours.

.....

.....

.....

.....

.....

.....

.....

.....

[3]

(b) Describe, giving an example, what is meant by flexible working.

.....

.....

.....

.....

.....

.....

.....

.....

[3]

13 Email is a common way of communicating with other people. Netiquette is associated with emailing.

A headmistress of a school has asked the network manager to produce a document listing netiquette rules the staff and students should follow when sending emails from the school.

Describe, giving reasons, **three** rules that he could produce.

1

.....

.....

.....

2

.....

.....

.....

3

.....

.....

.....

[6]

BLANK PAGE

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (UCLES) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced online in the Cambridge Assessment International Education Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download at www.cambridgeinternational.org after the live examination series.

Cambridge Assessment International Education is part of the Cambridge Assessment Group. Cambridge Assessment is the brand name of the University of Cambridge Local Examinations Syndicate (UCLES), which itself is a department of the University of Cambridge.