



Cambridge Assessment International Education
Cambridge International General Certificate of Secondary Education

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INFORMATION AND COMMUNICATION TECHNOLOGY

0417/11

Paper 1 Theory

October/November 2019

2 hours

Candidates answer on the Question Paper.

No Additional Materials are required.

READ THESE INSTRUCTIONS FIRST

Write your centre number, candidate number and name in the spaces at the top of this page and any additional pages you use.

Write in dark blue or black pen.

Do not use staples, paper clips, glue or correction fluid.

DO NOT WRITE IN ANY BARCODES.

No marks will be awarded for using brand names of software packages or hardware.

Answer **all** questions.

Any businesses described in this paper are entirely fictitious.

At the end of the examination, fasten all your work securely together.

The number of marks is given in brackets [] at the end of each question or part question.

This syllabus is regulated for use in England, Wales and Northern Ireland as a Cambridge International Level 1/Level 2 Certificate.

This document consists of **13** printed pages and **3** blank pages.

1 (a) Tick whether the following are examples of System software or Applications software.

	System (✓)	Applications (✓)
A linker		
A database		
An operating system		
An applet		

[2]

(b) Tick whether the following are examples of Internal hardware or External hardware.

	Internal (✓)	External (✓)
A monitor		
RAM		
Printer		
Mouse		

[2]

2 The introduction of computers into the workplace has had an effect on working patterns.

Name the most appropriate working pattern that matches the descriptions given below.

(a) Working fewer hours a week than full-time staff.

..... [1]

(b) Workers have some say in when they start and finish work but must work a full day.

..... [1]

(c) One full-time job is divided between two workers.

..... [1]

(d) A worker works the required hours but in a fewer number of days.

..... [1]

3 A manager of a company based in North America is planning a meeting with colleagues in Australia. He could hold a video-conference or a face-to-face meeting. A face-to-face meeting is when the colleagues attending the meeting are all together physically in one room.

(a) Give **three** advantages of holding a video-conference rather than a face-to-face meeting.

- 1
 -
 - 2
 -
 - 3
 -
- [3]

(b) Give **three** disadvantages of holding a video-conference rather than a face-to-face meeting.

- 1
 -
 - 2
 -
 - 3
 -
- [3]

4 A public garden in Canada has a computerised greenhouse to grow rare plants.

(a) Name **three** sensors which would be used in a computerised greenhouse.

- 1
 - 2
 - 3
- [3]

The teacher wishes to send the brochure as an email attachment to all the head teachers of the local primary schools.

- (c) Explain why she would create an email group to include all the email addresses of the head teachers.

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

- (d) The head teacher has purchased a computer with a large monitor and speakers to display information about the school. It is placed in the entrance of the school where visitors wait. You have been asked to produce a set of presentation slides to show features of the school.

The head teacher has recorded an audio message which is to be included in the presentation.

Describe the steps that you would take to set up the audio message so that it plays as the presentation runs.

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..... [6]

8 A company is planning to improve its computer system. They have employed a systems analyst who is recording and analysing information about the current system.

(a) Describe why he needs to identify the inputs, processing and outputs of the current system.

.....
.....
.....
..... [2]

The systems analyst recommends that new software is required. The analyst could either write the software or purchase it off the shelf.

(b) Give **two** advantages to the company of purchasing off the shelf software for the new system.

1
.....
2
..... [2]

10 E-safety is very important when using the internet. It is very easy to accidentally reveal personal data to others when using social networking sites.

(a) Describe **three** strategies, giving reasons for each one, which you would take to avoid revealing personal information when using social networking sites.

Strategy 1

.....

Reason 1

.....

Strategy 2

.....

Reason 2

.....

Strategy 3

.....

Reason 3

.....

[6]

(b) Confidential personal data is sensitive data.

Name **three** items of personal data that could be sensitive data.

1

.....

2

.....

3

.....

[3]

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