



Centre Number

71	
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Candidate Number

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ADVANCED SUBSIDIARY (AS)
General Certificate of Education
2013

**Information and
Communication
Technology**

Assessment Unit AS 1
assessing

Module 1: Components of ICT
[AW111]

TUESDAY 11 JUNE, AFTERNOON

MV18

TIME

2 hours, plus your additional time allowance.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

Write your answers in the spaces provided in this question paper.

Answer **all six** questions.

INFORMATION FOR CANDIDATES

The total mark for this paper is 120 marks including a maximum of 5 for quality of written communication.

Figures in brackets printed at the end of each question indicate the marks awarded to each question or part question.

1 The target sales and the actual sales for each department of a store are shown in the table below.

Department	Target Sales (£)	Actual Sales (£)
Men	15 000	12 341
Women	20 000	21 304
Children	10 000	10 312

(a) (i) **By referring to the table**, explain what is meant by [4]

Data _____

Information _____

(ii) By referring to the figures for the Men's Department, explain what is meant by knowledge. [3]

A secretary enters the sales figures into the following spreadsheet.

	D	E	F	G
3	Department	Target Sales (£)	Actual Sales (£)	Target achieved?
4	Men	15 000	12 314	N
5	Women	20 000	21 304	Y
6	Children	10 000	10 312	Y
7				
8	Total	45 000	43 930	N

(b) Describe how the contents of each of the following cells could be calculated by the spreadsheet. [4]

E8 _____

G4 _____

(c) The contents of cell **F4** should be **12341**.

(i) Name and describe the type of error which has occurred. [2]

Name _____

Description _____

(ii) Explain how verification can be used to detect errors. [3]

2 One of the main components of the CPU is internal memory.

(a) Explain how each of the following is used in a typical computer. [4]

ROM _____

RAM _____

(b) Name and describe **two** of the other main components of the CPU. [6]

Name _____

Description _____

Name _____

Description _____

(d) Identify **two** benefits and **two** drawbacks of using speech input. [4]

Benefits

1. _____

2. _____

Drawbacks

1. _____

2. _____

4 A company's LAN is connected to the Internet.

(a) Name and describe **two** different types of LAN topology.
[6]

Name _____

Description _____

Name _____

Description _____

(b) Explain the purpose of each of the following network resources. [6]

Switch _____

Proxy server _____

(c) TCP/IP is the main communication protocol used on the Internet.

(i) Explain what is meant by a communications protocol. [3]

(ii) Describe the main features of the IP part of this protocol. [3]

(d) Describe **two** reasons why the company should consider selling its products using the Internet. [4]

1. _____

2. _____

5 An organisation introduces a new database system.

(a) During the development of the system, a feasibility study was carried out.

Explain what is meant by social feasibility. [3]

(b) Describe what happens during the design stage of an ICT system. [6]

(c) The information system was tested.

Describe the main features of [6]

Application testing _____

Acceptance testing _____

(d) Describe **two** advantages of a custom-built system over an off-the-shelf system. [4]

1. _____

2. _____

(e) Explain what happens during system changeover. [4]

(b) Describe one benefit and one drawback of this use of EFTPOS for: [8]

The supermarket

Benefit _____

Drawback _____

Customers

Benefit _____

Drawback _____

For Examiner's use only	
Question Number	Marks
1	
2	
3	
4	
5	
6	
QWC	

Total Marks	
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Examiner Number

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