



Rewarding Learning

ADVANCED SUBSIDIARY (AS)
General Certificate of Education
2013

Centre Number

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Candidate Number

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**Information and
Communication
Technology**
Assessment Unit AS 1
assessing
Module 1: Components of ICT
[AP111]
TUESDAY 11 JUNE, AFTERNOON



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.

Complete in blue or black ink only. **Do not write in pencil.**

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 down the right-hand side of pages indicate the marks awarded to each question or part question.

- 1 Look at the table below. It shows the target sales and the actual sales for each department of a store.

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

Examiner Only	
Marks	Remark

- (a) (i) Refer to the table.

Explain the term **data**.

Explain the term **information**.

_____ [4]

- (ii) Refer to the figures for the Men's Department.

Explain the term **knowledge**.

_____ [3]

Look at the sales figures in the spreadsheet below:

Examiner Only	
Marks	Remark

	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) How were the contents of cell **E8** calculated? _____

How were the contents of cell **G4** calculated? _____

_____ [4]

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

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

Name _____

Description _____

_____ [2]

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

[3]

Examiner Only	
Marks	Remark

Examiner Only	
Marks	Remark
Total Question 2	

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.

ROM _____

RAM _____

 _____ [4]

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

Name _____
 Description _____

Name _____
 Description _____

 _____ [6]



3 A hotel has a number of interactive terminals for use by guests.

(a) Each terminal can be used to access the Internet.

(i) Describe the main features of a typical web browser.

[4]

(ii) Describe the main features of a typical search engine.

[4]

Examiner Only	
Marks	Remark

The hotel guests can access the terminals using speech input.

(b) Identify **two** hardware components required specifically for speech input.

1. _____
2. _____ [2]

(c) Identify **two** software components required specifically for speech input.

1. _____
2. _____ [2]

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

Benefits

1. _____

2. _____

Drawbacks

1. _____

2. _____
_____ [4]

Examiner Only	
Marks	Remark

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

Examiner Only	
Marks	Remark

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

Name _____

Description _____

Name _____

Description _____

_____ [6]

(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]

Examiner Only	
Marks	Remark

(d) Give **two** reasons why the company should consider selling its products using the Internet.

1. _____
- _____
- _____
- _____
2. _____
- _____
- _____
- _____ [4]

Examiner Only	
Marks	Remark
Total Question 4	

[Turn over



(c) The information system was tested.

Describe the main features of:

Application testing _____

Acceptance testing _____

_____ [6]

Examiner Only	
Marks	Remark

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

1. _____

2. _____

_____ [4]

(e) Explain what happens during system changeover.

_____ [4]

Examiner Only

Marks Remark

Total Question 5



6 EFTPOS technology is used extensively in supermarkets.

(a) Describe the main features of EFTPOS technology.

[4]

Examiner Only

Marks	Remark

[Turn over

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

The supermarket

Benefit _____

Drawback _____

Customers

Benefit _____

Drawback _____

_____ [8]

Examiner Only

Marks Remark



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Question Number	Marks
1	
2	
3	
4	
5	
6	
QWC	

Total Marks	
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Examiner Number

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