



Rewarding Learning

ADVANCED SUBSIDIARY (AS)
General Certificate of Education
2012

Centre Number

71	
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Candidate Number

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Information and Communication Technology

Assessment Unit AS 1
assessing

Module 1: Components of ICT
[AW111]



TUESDAY 29 MAY, MORNING

TIME

2 hours.

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

For Examiner's
use only

Question Number	Marks
1	
2	
3	
4	
5	
6	
QWC	

Total
Marks

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7130

1 Banks make extensive use of ICT.

(a) Identify **two** examples of input and **two** examples of output at a typical ATM.

Input

1. _____

2. _____

Output

1. _____

2. _____ [4]

(b) Describe the main features of each of the following technologies.

MICR

Smart card

_____ [6]

Examiner Only	
Marks	Remark

2 Students have access to a university's intranet.

(a) Describe the main features of each of the following.

WAN

LAN

[4]

(b) Describe the main difference between an intranet and the Internet.

[2]

(c) Identify **two** uses of the intranet **in this case**.

1. _____

2. _____

[2]

Examiner Only	
Marks	Remark

The university is taking part in a project with other universities on the use of renewable energy.

(d) Apart from email, explain how students taking part in the project could use the Internet to

Search for information

Disseminate information

[8]

Examiner Only	
Marks	Remark

(e) The organisers of the project wish to arrange a videoconference.

Identify **four** hardware components and **two** software components required specifically for videoconferencing.

Hardware

1. _____

2. _____

3. _____

4. _____

Software

1. _____

2. _____ [6]

Examiner Only	
Marks	Remark

- 4 When purchasing a product from a website, a customer completes the following on-screen form.

Name	<input type="text"/>
email address	<input type="text"/>
Delivery Address	<input type="text"/>
Product Code e.g. 12345	<input type="text"/>
Quantity	<input type="text"/>

- (a) State the most suitable field for each of these validation checks.

Character/type _____

Range _____

Format _____

Check Digit _____ [4]

Examiner Only	
Marks	Remark

The customer receives an email confirming the order.

The customer then receives a letter from an insurance company offering to provide insurance for the product.

(b) In this case, explain what is meant by

A direct data source

An indirect data source

[4]

(c) Explain the implications of Data Protection legislation when data is used in this way.

[4]

Examiner Only	
Marks	Remark

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