



Rewarding Learning

ADVANCED SUBSIDIARY (AS)
General Certificate of Education
January 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]



MONDAY 16 JANUARY, AFTERNOON

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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(d) The manager decides to use open source software in order to reduce costs.

(i) Describe one other advantage of using open source software.

[2]

(ii) Describe one drawback of using open source software.

[2]

Examiner Only	
Marks	Remark

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(Questions continue overleaf)

(c) Apart from e-mail, describe how information can be disseminated using the Internet.

[4]

Examiner Only	
Marks	Remark

(d) A spreadsheet is used to record annual sales. Part of the spreadsheet is shown below.

	A	B	C	D	E	F	G	H
1								
2	Sales Report				No. of products		4	
3								
4	Product Code	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total	Average	Best
5	24163	3465	3612	4512	6532	18 121	4530	6532
6	32549	1254	3425	1523	2341	8 543	2136	3425
7	46531	4528	5467	4398	5539	19 932	4983	5539
8	21458	2310	4218	2721	3471	12 720	3180	4218
9								
10								

Name and describe **three** different functions used in this part of the spreadsheet.

1. Function _____

Description _____

2. Function _____

Description _____

3. Function _____

Description _____

[6]

Examiner Only	
Marks	Remark

4 Members of a pedigree dog club must have their pets micro-chipped.

These micro-chips use RFID.

(a) Describe the main features of RFID technology.

[4]

(b) Describe **two** benefits of using RFID in this case.

1 .

2 .

[4]

Examiner Only	
Marks	Remark

(c) The club maintains a database of members and their pets. Describe **four** main steps the club should take in order to comply with Data Protection legislation.

1 . _____

2 . _____

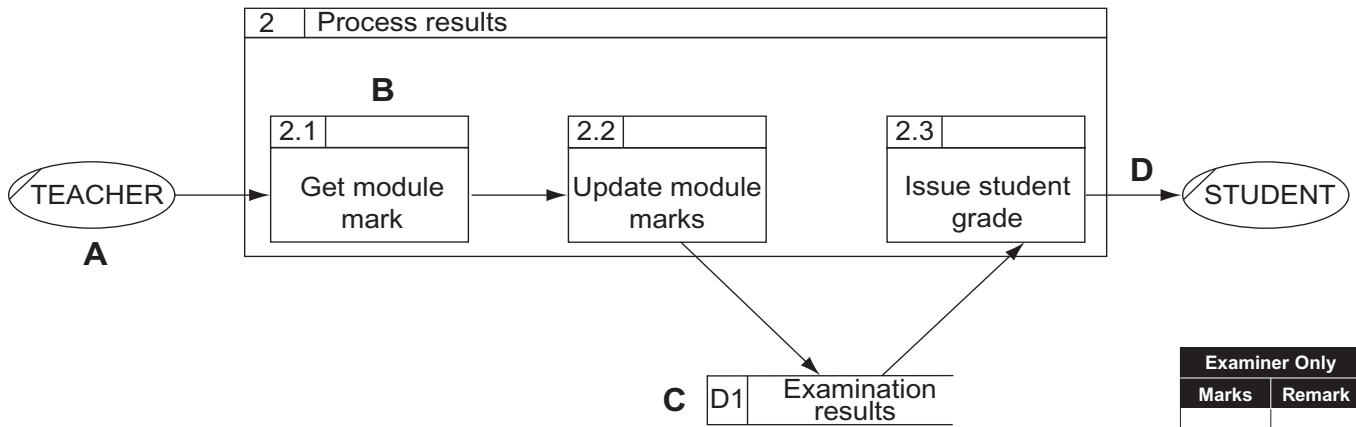
3 . _____

4 . _____

_____ [8]

Examiner Only	
Marks	Remark

6 The following diagram was produced during the development of an examinations system.



(a) Identify the type of diagram and each of its components labelled A to D.

Diagram _____

A _____

B _____

C _____

D _____ [5]

(b) ER diagrams were also produced for the examinations system.

Describe the purpose of an ER diagram.

_____ [4]

Examiner Only	
Marks	Remark

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