



Rewarding Learning

ADVANCED
General Certificate of Education
January 2014

Centre Number

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Candidate Number

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Information and Communication Technology

Assessment Unit A2 1
assessing
Module 3: Information Systems



[AP211]

AP211

MONDAY 20 JANUARY, 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.

Complete in blue or black ink only. **Do not write in pencil or with a gel pen.**

Answer **all six** questions.

INFORMATION FOR CANDIDATES

The total mark for this paper is 120 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.

8999



1 A business uses a client server network.

(a) Identify **three** advantages of a network compared to standalone computers.

1. _____

2. _____

3. _____

[3]

(b) Describe the main features of a client server network.

[4]

Examiner Only	
Marks	Remark





2 An information system is developed using rapid application development (RAD).

(a) Describe how a system is developed using RAD.

[5]

(b) Name and describe **one** other approach to system development.

Name _____

Description _____

[5]

Examiner Only	
Marks	Remark

[Turn over





(e) Describe the role of the project manager during the development of an information system.

Handwriting lines for the answer, ending with [4] at the bottom right.

Examiner Only table with columns Marks and Remark, and a Total Question 2 row.

[Turn over



3 The user interface is an important part of an information system.

(a) Explain the purpose of the user interface.

[2]

(b) Describe the main features of a natural language interface.

[4]

Examiner Only	
Marks	Remark





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(Questions continue overleaf)

[Turn over



5 A garden centre hires out plants for special occasions.

Details are recorded in a loan table as shown below.

Loan ID	Customer ID	Customer Name	Address	Loan Date	Total Cost	Plant ID	Plant Name	Quantity
1001	102	Green	Belfast	02/05/13	£50	501	Bay Tree	10
						503	Fern	4
1002	104	White	Lisburn	03/05/13	£25	503	Fern	3
1003	103	Brown	Lisburn	03/05/13	£75	503	Fern	4
						501	Bay Tree	2
						504	Rose	4
1004	102	Green	Belfast	03/05/13	£35	504	Rose	10
						503	Fern	2

(a) Explain the drawbacks of using a flat file **in this case**.

[4]

Examiner Only	
Marks	Remark



(c) Explain the role of the Database Administrator (DBA).

[4]

(d) End users can maintain the data in the database.

Identify **two** other facilities the DBMS will provide for end users.

1. _____

2. _____

[2]

Examiner Only	
Marks	Remark



(e) Customers can reserve plants in advance.

Explain why real-time processing is required in this case.

[4]

(f) Visitors to the garden centre can use an expert system to select suitable plants.

Describe how garden centre staff could assist the development of the expert system.

[4]

Examiner Only

Marks	Remark
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Total Question 5	
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[Turn over





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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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