



Rewarding Learning

ADVANCED
General Certificate of Education
2013

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

[AW211]

MONDAY 3 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 or with a gel pen.**

Answer **all seven** 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.

1 Most organisations have replaced standalone computers with a network.

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

1. _____

 2. _____

 3. _____

- [3]

(b) Explain what is meant by a **peer-to-peer network**.

[3]

(c) Communication standards are required when data is transmitted over a network.

(i) Explain the need for communication standards.

[2]

Examiner Only	
Marks	Remark



DO NOT WRITE ON THIS PAGE
(Questions continue overleaf)

(c) CASE tools can be used during system development. Name and describe **three** CASE tools used during system development.

Name _____

Description _____

Name _____

Description _____

Name _____

Description _____

_____ [9]

Examiner Only	
Marks	Remark
Total Question 2	

[Turn over



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(Questions continue overleaf)

(c) Explain how an interactive DVD can be used to train users of an information system.

[4]

Examiner Only

Marks Remark

Total Question 4

[Turn over

5 (a) Organisations using ICT must comply with all relevant legislation.

(i) Describe the main features of the Copyright, Designs and Patents Act.

[4]

(ii) Explain the main implications of Data Protection legislation for an organisation.

[4]

Examiner Only	
Marks	Remark



(b) Many organisations require their employees to sign an acceptable use policy regarding ICT.

Describe the purpose of an acceptable use policy.

[4]

(c) Describe **three** reasons why an ICT professional should become a member of the Association for Computing Machinery (ACM).

1. _____

2. _____

3. _____

[6]

Examiner Only	
Marks	Remark
Total Question 5	

6 A retailer uses a database system for customer orders and sales.

(a) Describe **two** drawbacks with data which is not normalised.

1. _____

2. _____

_____ [4]

An invoice is produced for each sale.

INVOICE																			
Invoice ID	12345	Invoice date	02/05/13																
Customer ID	C3215																		
Name	Green																		
Address	12a Old Row Belfast																		
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 15%;">Item ID</th><th style="width: 35%;">Description</th><th style="width: 15%;">Unit price</th><th style="width: 35%;">Quantity</th></tr></thead><tbody><tr><td>M8765</td><td>Motherboard</td><td>£36.99</td><td>1</td></tr><tr><td>H3921</td><td>External HD</td><td>£52.99</td><td>2</td></tr><tr><td>P6124</td><td>Power supply</td><td>£57.99</td><td>1</td></tr></tbody></table>				Item ID	Description	Unit price	Quantity	M8765	Motherboard	£36.99	1	H3921	External HD	£52.99	2	P6124	Power supply	£57.99	1
Item ID	Description	Unit price	Quantity																
M8765	Motherboard	£36.99	1																
H3921	External HD	£52.99	2																
P6124	Power supply	£57.99	1																
			Invoice total: £200.96																

Examiner Only	
Marks	Remark

(b) Produce an Entity Relationship Model, which does not include a many-to-many relationship, for this invoice.

Examiner Only	
Marks	Remark

[7]

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Question Number	Marks
1	
2	
3	
4	
5	
6	
7	
QWC	

Total Marks	
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Examiner Number

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