8755.05 ML

ADVANCED General Certificate of Education 2014

## Information and Communication Technology

Assessment Unit A2 1 assessing Module 3: Information Systems

[AP211]

MONDAY 2 JUNE, MORNING

#### 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.

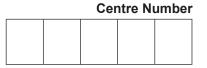
Complete in blue or black ink only. **Do not write in pencil or with a gel pen.** Answer **all seven** questions.

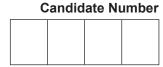
### **INFORMATION FOR CANDIDATES**

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.







(a) Describe the main features of a client server network.	
[4]	
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[4]	
(b) Explain what is meant by data encryption.	
(b)  Explain what is meant by data encryption.	
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(d) De	scribe the main features of a distributed database.		
		_ [4]	

	advantages fully.			
1				
2				
		 [4]		
			Total Qu	
			TOTAL QL	162(10)

	ublisher uses a relational database to produce information essential to running of the business.	Examiner Only Marks Remark
(a)	Explain what is meant by	
	Data inconsistency	
	Data independence	
	Data integrity	
	[6]	
.05 <b>ML</b>		

- (b) Three of the entities in the database are BOOK, AUTHOR and AGENT.
  - Each book can have one or more authors
  - An author can write multiple books
  - Each agent represents a number of authors
  - No author is represented by more than one agent

Draw an entity relationship (ER) diagram for these entities in the space below. Make sure that it does not contain a many-to-many relationship.

[7]

Examiner Only Marks Remark

c)	Describe three different costs involved in producing information.	Examiner Only Marks Remark
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	[6]	
		Total Question 2
ИL	. 8	

Describe <b>two</b> main features of a graphics CASE tool.		
1		
2		
2		
	[4]	
Explain how a project management CASE tool could be used during software development.	1	
soltware development.		
	[4]	
	[4]	

Explain what is meant by each of the following:		Marks
Alpha testing		
Acceptance testing		
	[1]	

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Examiner Only Marks Remark

(d)	Explain how software maintenance can improve the quality of the new	
	system.	

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Total Question 3

P

Describe the main factures of a table 140		
Describe the main features of a typical MIS		
	[4]	
Name and describe three levels of decision	n-making.	
1. Name		
Description		
2. Name		
Description		
3. Name		
Description		
	[6]	
		1

1. Name	 	
Description		
		Total

a)	Explain the difference between an intranet and the Internet.	Marks	Re
		[4]	
		- [']	
b)	Explain <b>two</b> reasons why the company does not allow the use of		
	portable storage devices.		
	1		
	2		
		_ [4]	

of ICT.		Marks
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1.		
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(d) The company arranges membership of the British Computer Society (BCS) for its ICT staff.

Explain **two** benefits to an ICT professional of membership of the BCS.

1.\_\_\_\_\_ 2. [4]

Reserved 2 Learning

(a)	Describe the main features of a command line interface.	Marks	Rem
(a)			
	[4]		
	[ <sup>+</sup> ]		
(b)	Describe the main features of a form driven interface.		
()			
	[1]		
	[4]		

Describe how ICT can	be used to provide on-line trair	ning.	
		[4]	
			Total Que

<ul><li>Downloading for</li><li>Watching in real</li></ul>	r watching later I-time			
Write a report compatible lCT involved.	aring these <b>two</b> methods. I	Make specific references to		
		[10]		
			Total Qu	lestion
			Quality commu	

## THIS IS THE END OF THE QUESTION PAPER

For Examiner's use only		
Question Number	Marks	
1		
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QWC		
Total Marks		

Examiner Number

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