Rewarding Learning

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.

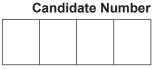
INFORMATION FOR CANDIDATES

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.



Centre Number







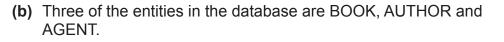
	ecksums and encryption are used when data is transmitted over a client ver network.	Examiner Only Marks Remark
a)	Describe the main features of a client server network.	
	[4]	
)	Explain what is meant by data encryption.	
	[4]	

D

				[4]	
organisation us	es a distribute	1 database			
		f a distributed dat	abasa		
Describe the r					
				[4]	

Describe these ac	Ivantages fully.				
1					
2					
			۲۵۱		
			[7]		
				Total Ques	stic

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



- 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

4			Marks	Ren
1				
2				
3				
		[6]		
			Total Qu	lestic

• /	SE tools are used during the development of a new information system	Marks Rema
3)	Describe two main features of a graphics CASE tool.	
	1	
		_
	2	
	2	—
		[4]
))	Explain how a project management CASE tool could be used during software development.	
	sonware development.	
		—
		[4]

Explain wh	nat is meant by ea	ach of the follow	ving:		
Alpha test	ng				
Acceptanc	e testing				
				[6]	

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i Leaming
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2 7 Learning
Reserving
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Examiner Only Marks Remark

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

		1
		1
		1
		1
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		1
		1
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[6]		1
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P

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

1. Name Description		-
		-
		-
2. Name		
Description		
3. Name		
Description		
	[0	1
		Total

Em	oloyees can access a company's intranet.		Examiner On Marks Rem
(a)	Explain the difference between an intranet and the Internet.		
(b)	Explain two reasons why the company does not allow the use of portable storage devices.		
	1		
	2		
		_ [4]	

of ICT.		Marks
1		
l		
2		
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J		
	[6]	

(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]

Resertin

Examiner Only

(a) Describe the main features of a command line interface.	(a)	Describe the main features of a command line interface.	Marks	Rem
	(u)			
[4] (b) Describe the main features of a form driven interface.				
[4] (b) Describe the main features of a form driven interface.				
(b) Describe the main features of a form driven interface.				
(b) Describe the main features of a form driven interface.		۲۸٦		
		[4]		
	(h)	Describe the main features of a form driven interface		
	(0)			
[4]				
[4]				
[4]				
[4]				
[4]				
[4]				
		[4]		

Describe how ICT can be	e used to provide on-line training.		Marks R
Describe now for carry	e used to provide on-line training.		
		[4]	
			Total Ques

Downloading for watching laWatching in real-time	ater		
Write a report comparing these the ICT involved.	two methods. Make specific references	s to	
		[10]	
		Total	Question
			y of written nunicatio

THIS IS THE END OF THE QUESTION PAPER

For Examiner's use only		
Question Number	Marks	
1		
2		
3		
4		
5		
6		
7		
QWC		
Total Marks		

Examiner Number

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