

Surname	Centre Number	Candidate Number
Other Names		2



**GCE AS/A level**

1641/01



S15-1641-01

**APPLIED INFORMATION & COMMUNICATION TECHNOLOGY**

**UNIT AICT1 – PART A**

**eBusiness – Gaining Skills in eBusiness**

**Paper version of on-screen assessment**

A.M. FRIDAY, 22 May 2015

3 hour examination consisting of two parts

For Examiner's use only		
	Maximum Mark	Mark Awarded
<b>Total Mark (PART A only)</b>	<b>40</b>	

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**INSTRUCTIONS TO CANDIDATES**

Use black ink or black ball-point pen.

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer **all** questions.

**INFORMATION FOR CANDIDATES**

Questions in this paper are based on the context of *With IT*.

The examination consists of two parts:

Part A: Knowledge and application of eBusiness (40 marks - 1 hour)

Part B: Tasks to demonstrate practical competence (60 marks - 2 hours)

The context for the examination is set in the Introduction.

A short break is permitted between Parts A and B.

Quality of Written Communication will be assessed in Question 8 of Part A.

## INTRODUCTION

“*With IT*” is an information technology based training company. The company delivers training on the use of mobile devices in schools. Jo Morris, a qualified teacher, set up the company five years ago.

The company employs twenty five trainers. The trainers work in teams with schools from a particular local authority and deliver training to groups of teachers from the schools. This training can be for a day, half a day or early evening following the end of the school day.

“*With IT*” can provide tablet computers for the training but encourages teachers to bring their own devices to the event so that they can download and keep the apps that were used in the training sessions.

The company has an office and a training facility in a busy town centre. Parking at the training facility can be difficult and teachers have indicated that they would prefer the training to take place in their own schools.

Jo has decided that the company could save money and improve working conditions if the training facility was closed and all trainers prepared their training materials at home and visited schools to provide training sessions.

Jo now needs to convince the trainers that working from home will provide them with many benefits. You have been asked to help Jo with her work.





*“Hello. As you are aware, I am looking at the possibility of our trainers working from home. I would like to obtain some information about home working, particularly the advantages and disadvantages it can offer the company and the trainers.”*

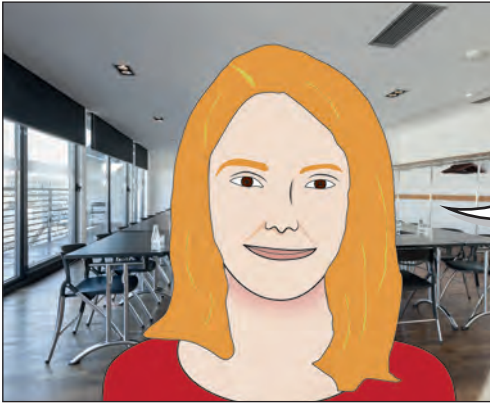
1. (a) Identify **one** advantage of home working for the trainers. [1]

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(b) Identify **two** disadvantages for the company of the trainers working from home. [2]

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*“I realise that the change to home working will only succeed if the trainers have access to high quality data stored electronically. I have decided to use a database application and have a number of questions I would like to ask you about databases.”*

2. (a) Explain what is meant by a one-to-many relationship in a database. [2]

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(b) Describe **two** benefits of dividing data into separate tables linked by relationships when using a database application. [4]

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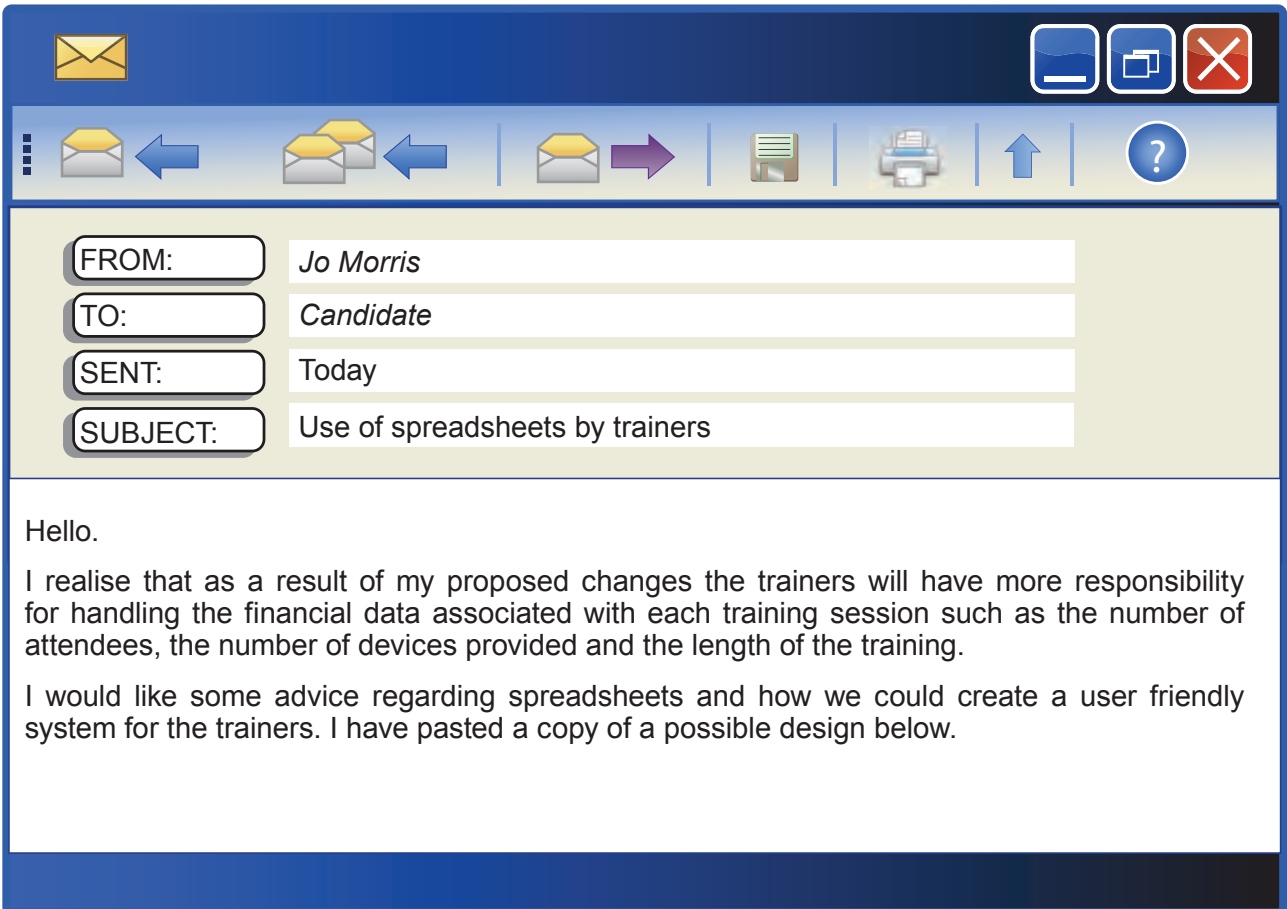
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**FROM:** Jo Morris  
**TO:** Candidate  
**SENT:** Today  
**SUBJECT:** Use of spreadsheets by trainers

Hello.

I realise that as a result of my proposed changes the trainers will have more responsibility for handling the financial data associated with each training session such as the number of attendees, the number of devices provided and the length of the training.

I would like some advice regarding spreadsheets and how we could create a user friendly system for the trainers. I have pasted a copy of a possible design below.

D	E	F	G	H	I
		<b>Session Calculator</b>			
	<b>Item</b>	<b>Price</b>	<b>Quantity</b>	<b>Cost</b>	
	Teachers				
	Devices				
	Refreshments				
			<b>Sub total</b>		
	<b>Cost of trainer</b>				
		<b>Total before VAT</b>			
			<b>VAT (20%)</b>		
			<b>Total due</b>		

3. Describe how **two** functions or features of a spreadsheet application other than the SUM function could be used to create a user friendly system for the trainers to record details of each session. [4]

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*“I want to make sure that the trainers have access to the company’s central computer system . I have heard about a way of accessing systems using a Virtual Private Network (VPN), however, I have concerns about the security of remote access to the company’s data.”*

4. (a) Describe **one** method, other than a standard username and password, that the company could use to ensure that only employees can access the data. [2]

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- (b) Describe **two different** methods the company could use to back up the data held by the computer system. [4]

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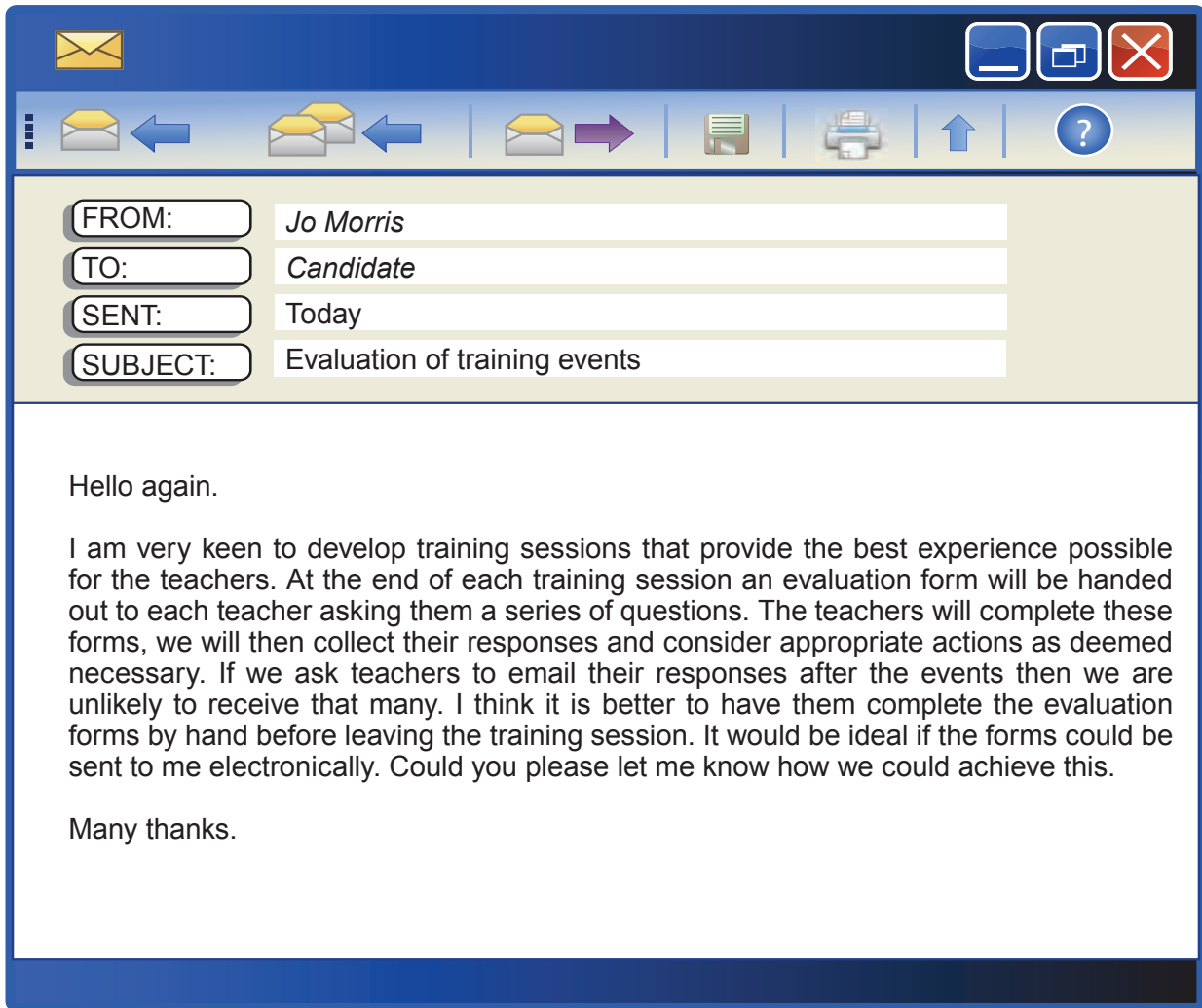
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5. Describe, in detail, **two** ways in which the trainers could use technology to send copies of the hand written documents to Jo at the office. [4]

Method 1:

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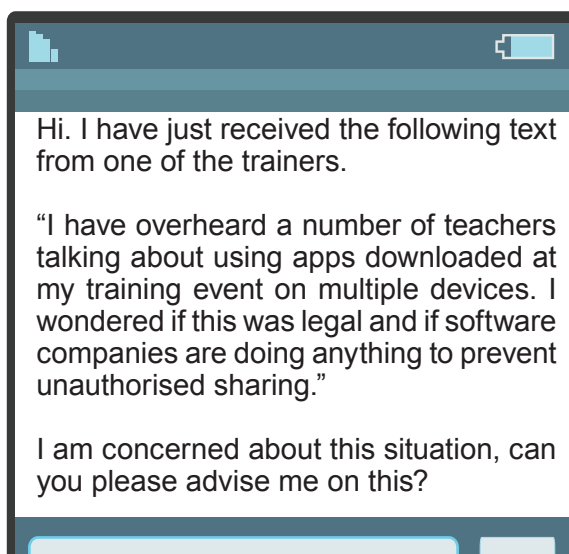
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Method 2:

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6. (a) Name the law that prevents one copy of software being loaded onto multiple devices.

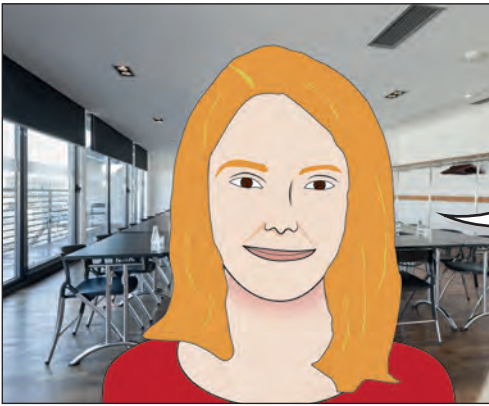
[1]

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(b) Describe **two** measures that software companies use to prevent unauthorised sharing of software.

[4]

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*“We have collected a lot of information about our customers through the use of our current evaluation forms. I am sure that this information can be used to improve the organisation’s performance with a view to possible expansion. I have heard of management information systems and would like to know how this could benefit us.”*

7. Describe **two** facilities provided by a management information system and explain how the company could use these facilities to expand the business. [4]

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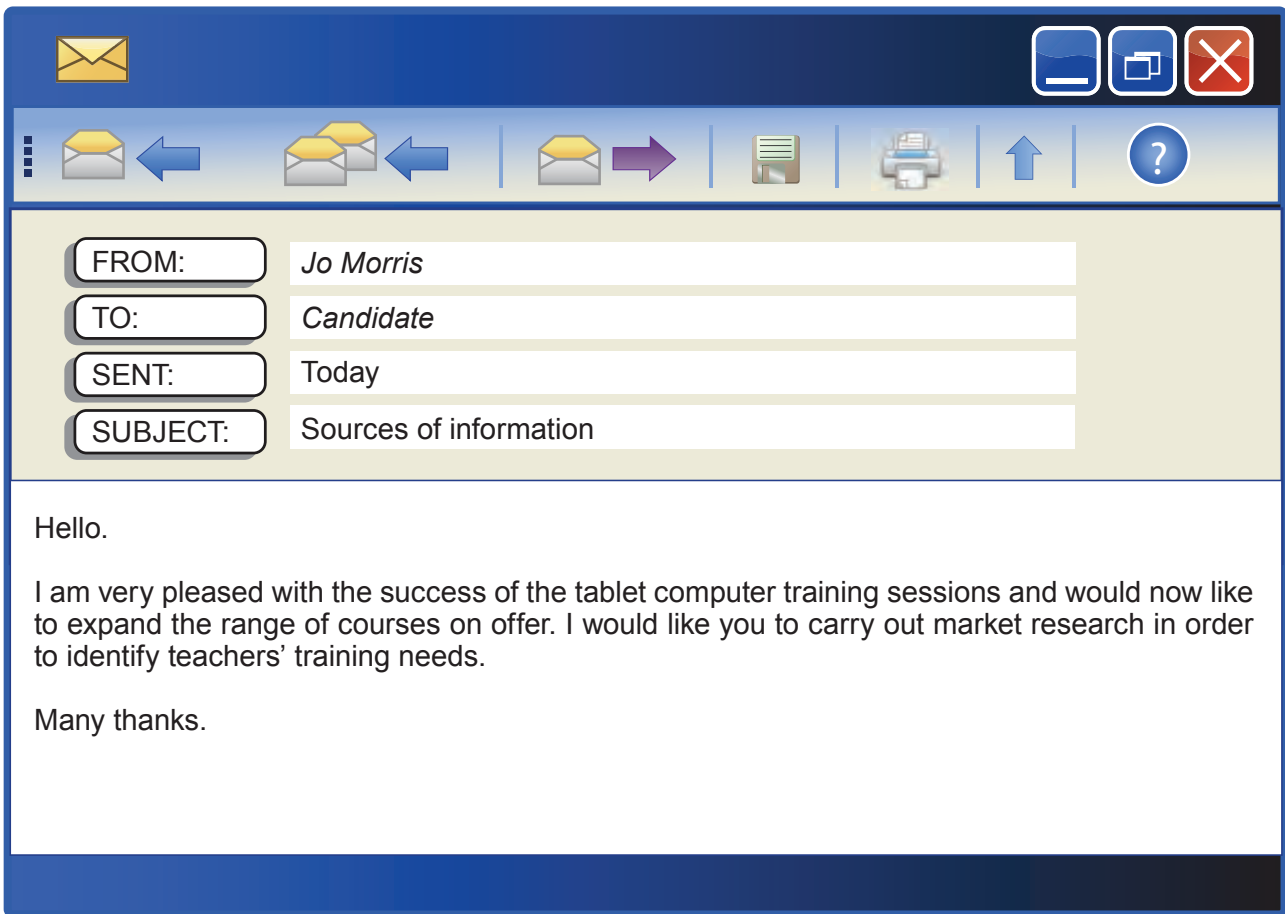
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8. Identify relevant primary and secondary sources that could be used to identify teachers' training needs. Describe methods that could be used to gather information from these sources. Explain the advantages and disadvantages of each method. [8]

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