Candidate	Centre	Candidate
Name	Number	Number
		2



#### GCE AS/A level

1241/01 **New AS** 

# INFORMATION AND COMMUNICATION TECHNOLOGY ICT 1 INFORMATION SYSTEMS

A.M. FRIDAY, 15 May 2009  $2\frac{1}{4}$  hours

#### INSTRUCTIONS TO CANDIDATES

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

Answer all questions.

Answers should be written in the spaces provided. Where the space is not sufficient for your answer, continue the answer at the back of the book, taking care to number the continuation correctly.

The intended marks for questions or part questions are given in brackets []. You are advised to divide your time accordingly. The total number of marks available is 80.

You are reminded of the necessity for good written communication and orderly presentation in your answers.

Quality of written communication will be assessed in question 8.

For Examiner's use only				
Question	Maximum Mark	Mark Awarded		
1.	6			
2.	7			
3.	4			
4.	8			
5.	5			
6.	6			
7.	6			
8.	18			
9.	4			
10.	16			
Total	80			

#### **SECTION A**

### Answer all questions.

	lationship bet	ween each of t	ne terms.			[6
•••••						
(a)	"Up to date decision mal adds value.	, accurate and king. Describe	complete" in using suitable	formation add distinct exam	s value to an oples <b>two</b> other v	rganisation by aidin vays such informatio [4
•••••						

<ul><li> time</li><li> human resources.</li></ul>		
Describe with suitable	le distinct examples how such costs could arise.	
A student wishes to find out Describe how the student information to find out abou	could make use of two different, appropriate electro	onic source
Describe how the student	could make use of two different, appropriate electro	nic source
Describe how the student	could make use of two different, appropriate electro	onic source
Describe how the student information to find out abou	could make use of two different, appropriate electro	
Describe how the student information to find out abou	could make use of <b>two</b> different, appropriate <i>electro</i> at the <i>Environment</i> .	
Describe how the student information to find out abou	could make use of <b>two</b> different, appropriate <i>electro</i> at the <i>Environment</i> .	

	(a)	Desc used	cribe, using an appropriate example in <b>each</b> case, how the following features in the running of the Estate Agent's business.	s can be
(iii) Hyperlinks [2]		(i)	Animated transitions	[2]
(iii) Hyperlinks [2]				
		(ii)	Templates	[2]
(b) The Estate Agent also maintains a website. Discuss the advantages of using HTML coding		(iii)	Hyperlinks	[2]
rather than templates. [2]	(b)		Estate Agent also maintains a website. Discuss the advantages of using HTMI	

disad	onic mail has become very important in the modern world. Explain the advantages of using email for communication.	[5
		•••••
•••••		••••••
	byees in an Architects office use computers to produce their designs.  Describe <b>three</b> health hazards that employees working with computers need to be aw	
		are of [3
Emplo (a)		
(a)	Describe <b>three</b> health hazards that employees working with computers need to be aw	[:
(a)	Describe <b>three</b> health hazards that employees working with computers need to be aw	[:
(a)	Describe <b>three</b> health hazards that employees working with computers need to be aw	[:
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(a)	Describe <b>three</b> health hazards that employees working with computers need to be aw	[:

7.		reating online bank accounts, <i>verification</i> and <i>validation</i> procedures are used.
	(a)	Define the term <i>verification</i> and describe using a suitable example, a method that would be used with online banking. [3]
	(b)	Define the term <i>validation</i> and describe, using a suitable example, a method that would be used with online banking. [3]
•		is widely used in many areas of the Health Service such as expert systems, body scanning es, databases for record keeping and bar coding.
	(a)	Define the term 'expert system' and describe using suitable examples their advantages for patient care. [8]

(b)	Discuss in detail the main benefits and drawbacks of such body scanning devices i treatment of patients.	the [4]
(c)	Discuss the reasons why databases were introduced for storing patient records and assest impact they have had upon patient tracking and monitoring.	s the [6]
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#### **SECTION B**

Answer all questions.

9.	Simu	lation modelling has become very important in today's society.
	(a)	Define what is meant by simulation modelling. [1]
	(b)	Describe the advantages and disadvantages of using simulation modelling in car crash analysis. [3]

## YOU MUST REFER TO YOUR OWN SPREADSHEET TO ANSWER THE FOLLOWING QUESTION.

## IF NO SPREADSHEET EVIDENCE IS SUBMITTED THEN NO MARKS CAN BE AWARDED.

## IN YOUR ANSWERS YOU MUST IDENTIFY WHERE YOU HAVE USED THE FORMULAS AND FEATURES.

. (	(a)	Identify <b>two</b> different formulas from the following list you used in your spreadsheet:
		SINGLE IF, MULTIPLE IF, DATE, ROUND, VLOOKUP.
		Describe the purpose for which <b>each</b> was used in your spreadsheet. [4]
(	(b)	Describe <b>one</b> method of simplifying <i>data entry</i> you created in your spreadsheet stating the advantages of using this technique for entering data into a spreadsheet. [4]
•••		

(1241-01) **Turn over.** 

(c)	Describe <b>one</b> method of <i>validation error trapping</i> used in your spreadsheet, and describe error message produced.	ribe [4]
(d)	Describe the purpose or function of a sort routine and of <b>one</b> other <i>different process</i> used in your spreadsheet.  In your answer do not describe any feature you gave in parts (a), (b) or (c).	you [4]
•••••		

ENSURE YOU ATTACH THE PRINTOUTS OF YOUR SPREADSHEET TO YOUR EXAMINATION ANSWER PAPER.