Candidate	Centre	Candidate
Name	Number	Number
		2



GCE AS/A level

1241/01

INFORMATION AND COMMUNICATION TECHNOLOGY IT1

INFORMATION SYSTEMS

A.M. TUESDAY, 7 June 2011 $2\frac{1}{4}$ hours

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.

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	6	
5	6	
6	7	
7	6	
8	18	
9	4	
10	16	
Total	80	

SECTION A

Answer all questions.

(a)	Biometric devices	
<i>(b)</i>	Touch-sensitive screens	
(c)	Graphical User Interface (GUI)	



2.

000	a quality information must use accurate and valid data.	
(a)	Explain what is meant by the term <i>accurate</i> data.	[1]
(b)	Data may pass a validity check but may not be accurate. Using a suitable example explain the difference between validity and accuracy.	ole, [2]
(c)	Discuss, using suitable examples, two ways in which good quality information can a value to an organisation by aiding the decision making process. [2 ×	

(7)

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

distinct a	o different electronic methods of finding this information and for each, advantage of using this method over using a text book.	[4
Many so	chools now make increasing use of distance/online learning and comp	uter assiste
learning	(CAL) software.	
learning	chools now make increasing use of distance/online learning and comp (CAL) software. ive two advantages and one disadvantage of distance/online learning.	uter assiste
learning	(CAL) software.	

<i>(b)</i>	Give two advantages and one disadvantage of CAL software. different to those in part (a) .	Tour unswer	
admi	ools are making an increasing use of word processing and DTP softwinistration. Some of the functions of the programs are mention ose of each function and give an appropriate example of its use in a	ned below.	State
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 $\binom{1}{6}$

41

(c)	Macro	[2
Expe	rt systems now have an important role in Health Care.	
(a)	Define what is meant by an expert system.	[2
(b)	Describe the advantages and disadvantages for the use of expert systems in Care.	Healt

Other than the speed of processing, describe three advaprocessing using a suitable distinct example in each case	ee. [6]



7.

(a)	Describe, using distinctly different examples, four developments and the benefits that these have brought to home entertainment. [12]

b)	Discuss different disadvantages in using ICT for home entertainment.	[6]



SECTION B

Answer all questions.

(a) 	Define what is meant by simulation modelling. [1
(b)	Describe a specific use of simulation modelling for financial forecasting, and give on advantage and one disadvantage for this use.
	YOU MUST REFER TO YOUR OWN SPREADSHEET TO ANSWER THE FOLLOWING QUESTION.
MA	THE FOLLOWING QUESTION. IF NO SPREADSHEET EVIDENCE IS SUBMITTED THEN NO MARKS
MA (a)	THE FOLLOWING QUESTION. IF NO SPREADSHEET EVIDENCE IS SUBMITTED THEN NO MARKS CAN BE AWARDED. KE SURE THAT YOU SHOW IN YOUR ANSWER WHERE THE PROCESSES, FUNCTIONS/FORMULAS CAN BE FOUND IN YOUR SPREADSHEET.

(1)		
<i>(b)</i>	(b) Describe two methods of simplifying <i>data enti</i> two <i>different</i> advantages of using such techniq	ry you created in your spreadsheet stating ues for entering data into a spreadsheet.
	1	[4]

	Identify and describe one method of <i>validation error trapping</i> used in your spreadshed and describe the error message produced.
vour c	answer do not describe any feature, function or process you gave in parts $10(a)$, (b) or (c)
our (answer do not describe any feature, function or process you gave in parts $10(a)$, (b) or (c)
our c	answer do not describe any feature, function or process you gave in parts $10(a)$, (b) or (c)
	answer do not describe any feature, function or process you gave in parts 10(a), (b) or (c)