Surname	Centre Number	Candidate Number
Other Names		2



GCE AS/A level

1241/01

INFORMATION AND COMMUNICATION TECHNOLOGY IT1 INFORMATION SYSTEMS

P.M. MONDAY, 16 January 2012 21/4 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 use a continuation sheet, 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 (b).

For E	xaminer's use	only
Question	Maximum mark	Mark awarded
1	8	
2	7	
3	4	
4	6	
5	4	
6	6	
7	7	
8	18	
9	4	
10	16	
Total	80	

Make sure you hand in your spreadsheet with this booklet at the end of the examination.

SECTION A

Answer all questions.

(a)	Define the term <i>knowledge</i> . Using a suitable example, illustrate the relationship between <i>data</i> , <i>information</i> and <i>knowledge</i> . [4]
(b)	Other than 'it takes less time to type in', give two reasons to explain why data is encoded before being entered into a computer system.
(c)	By referring to an appropriate example, describe one problem associated with encoding
	of data.



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Good quality information must use accurate and valid data.	
Explain what is meant by the term <i>accurate</i> data.	[1]
"Data entered into a computer may not be accurate but still be accepted as valid." Using a suitable example, explain the difference between accuracy and validity.	[2]
Other than information being <i>accurate</i> and <i>valid</i> , describe using examples, two characteristics of good quality information.	other [2]
Other than by aiding the decision making process, describe, using an example, one which good quality information can add value to an organisation.	vay in [2]
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		zoom	stress/strain	walkthrough	hatching/rendering
Presen	tation	software is us	ed to create tutoria	als for pupils to lear	rn about new software. Desc
the foll	lowing	software is use g features and Animated tra	explain how each	als for pupils to lear benefits the prese	rn about new software. Desc ntation.
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	(iii) Hyperlinks.	[2]
5.	Electronic mail has become essential to many companies because of the speed with which it caget messages around the globe. Other than speed, explain the advantages and disadvantages using email.	an of [4]



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a d	scribe three ways in which ICT is having an effect on <i>home entertainment</i> and <i>leisure</i> , istinctly different example in each case.	gıv
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8.		The Health Service makes extensive use of ICT.
	(a)	The Health Service makes use of Expert Systems. State the three main components of an expert system and then describe, with examples, the advantages and disadvantages of using an expert system in the Health Service. [8]

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SECTION B

Answer all questions.

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IF I	QUESTION. NO SPREADSHEET EVIDENCE IS SUBMITTED THEN NO MARKS CAN BE AWARDED. SE ENSURE THAT YOU SHOW IN YOUR ANSWER WHERE THE PROCESSES, FUNCTIONS/FORMULAS CAN BE FOUND IN YOUR SPREADSHEET.
IF I	QUESTION. NO SPREADSHEET EVIDENCE IS SUBMITTED THEN NO MARKS CAN BE AWARDED. SE ENSURE THAT YOU SHOW IN YOUR ANSWER WHERE THE PROCESSES, FUNCTIONS/FORMULAS CAN BE FOUND IN YOUR SPREADSHEET. FOR EXAMPLE PAGE 6 CELL D4. Describe the function or purpose of two different formulas, from the list below, which
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Describe used each	two different one.	t types of ma	acro you used	l in your spre	eadsheet, stat	ing why

(d)	Describe, giving the purpose, two different functions or processes you used in your spreadsheet. [4]							
	In your answer do not describe any formula, function or process listed in 10 (a) or mentioned in your answers to (b) or (c) .							

