Surname

Centre

2

Candidate Number

Other Names



GCE AS/A level

1241/01

INFORMATION AND COMMUNICATION TECHNOLOGY - IT1 Information Systems

P.M. MONDAY, 3 June 2013

 $2\frac{1}{4}$ hours

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

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.

SECTION A	E	Exam onl
Answer all questions.		
An ICT system needs a good Human Computer Interface (HCI) give an example of <i>how it could be used</i> and also one advantage). For each of the following HCI and one disadvantage.	
(a) Voice interfaces.	[3]	
(b) Touch sensitive screens.	[3]	
		${6}$

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3.	Name and describe two <i>different</i> crimes covered by the Computer Misuse Act, illustrating your answer with distinct examples. [4]	Examiner only
		\square

A company uses word processing/DTP software. Define **each** of the following functions of word processing/DTP software and give an *appropriate* example of how **each** can be used by the company. [6] Templates. (a)..... *(b)* Macros. _____ Mailmerge. (c).....

4.

 $\begin{array}{c}12\,41\\0\,10\,0\,05\end{array}$

Examiner only

Turn over.

	Valio	dation is very important in modern data processing systems.	0
	(i)	Define what is meant by the term <i>'validation'</i> . [1]	
	(ii)	Using an example, name and describe, a validation method that could be used in a student record keeping system. [3]	
(b)	Othe	er than the data itself, describe four factors that could affect the efficiency of data	
	proc	essing systems. [4]	
		essing systems. [4]	
······			

hatching/rendering	wiredrawing	walkthrough	rotate
Describe how each could be u	sed by an architect w	when designing a hous	e. [4

/ ``		5.05
(a)	Describe two advantages and one disadvantage of <i>distance learning</i> .	[3]
(b)	Describe two advantages and one disadvantage of CAL software. Do not give the sa advantages and disadvantage as in part (a)	
(b)	Describe two advantages and one disadvantage of CAL software. Do not give the sa advantages and disadvantage as in part (a).	ame [3]
(b)	Describe two advantages and one disadvantage of CAL software. Do not give the sa advantages and disadvantage as in part (<i>a</i>).	
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	Describe two advantages and one disadvantage of CAL software. Do not give the sa advantages and disadvantage as in part (<i>a</i>).	
	advantages and disadvantage as in part (a).	
(b)	advantages and disadvantage as in part (a).	
	advantages and disadvantage as in part (a).	
	advantages and disadvantage as in part (a).	
	advantages and disadvantage as in part (a).	[3]

A mu	Ilti-national supermarket company has many branches.
(a)	The supermarkets make use of <i>barcodes</i> for recording sales. Describe what a barcode on a product is and give one advantage and one disadvantage of using barcodes to input data in the supermarkets. [4]
(b)	<i>'Just in time'</i> control systems are used extensively for stock control in the supermarkets. Describe how 'just in time' stock control works after a barcode is scanned at a Point of Sales (POS) terminal. [4]
(b)	Describe how 'just in time' stock control works after a barcode is scanned at a Point of
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	Describe how 'just in time' stock control works after a barcode is scanned at a Point of Sales (POS) terminal. [4]
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	Describe how 'just in time' stock control works after a barcode is scanned at a Point of Sales (POS) terminal. [4]

(c)	Discuss the advantages supermarkets.	and disadvantag	ges 'Just in	<i>time</i> ' stock	control	Examine only
·····						
·····						

Examiner only The company also has an *on-line shopping* facility. Describe **four** *different* benefits that on-line shopping offers the **company** and its **customers**. [4] (d)..... _____

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SECTION B

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Answer all questions.

9.	Simulation modelling is very important in weather forecasting. Describe how the models are created and give one advantage and one disadvantage that simulation modelling has brought to weather forecasting. [4]	

Examiner only

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	YOU MUST REFER TO YOUR OWN SPREADSHEET TO ANSWER THE FOLLOWING QUESTION.	E
	IF NO SPREADSHEET EVIDENCE IS SUBMITTED THEN NO MARKS CAN BE AWARDED.	
	MAKE SURE THAT YOU SHOW IN YOUR ANSWER WHERE THE FUNCTIONS/FORMULAS CAN BE FOUND IN YOUR SPREADSHEET.	
(a)	Describe the purpose of two functions from the list below, which you have used is spreadsheet.	in your [2×2]
	Single IF, Multiple IF, DATE, ROUND	
······		
.		
······		
 (b)	Describe the purpose of a VLOOKUP function you used in your spreadsheet.	[3]
·····		
		
······		

(1241-01)

(c)	Describe a validation method you used to ensure that invalid data was not used in your spreadsheet. [3]	Examiner only
(<i>d</i>)	Describe the purpose of:	
(d)	Describe the purpose of: (i) A graph, you used in your spreadsheet. [2]	
(d)		

(ii) Two other functions/formulas you used in your spreadsheet. [2 You may not use any function mentioned in $10(a)$, $10(b)$ or $10(c)$.	×2]	Examiner only
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END OF PAPER

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

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