Surname	Centre Number	Candidate Number
Other Names		2



GCE AS/A level

1241/01

INFORMATION AND COMMUNICATION TECHNOLOGY – IT1 Information Systems

A.M. MONDAY, 2 June 2014

2 hours 15 minutes

For Examiner's use only			
Question	Maximum Mark	Mark Awarded	
1.	10		
2.	3		
3.	6		
4.	6		
5.	6		
6.	6		
7.	5		
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 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).

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

SECTION A

Answer all questions.

(a)	Define the terms <i>information</i> and <i>knowledge</i> and then give two different examples illustrate the relationship between information and knowledge.	6 (6)
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(b)	Other than by aiding the decision making process, describe using appropriate exampl two ways in which good quality information can add value to an organisation.	es [4]
		••••



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	Define the term <i>validation</i> . Name and describe how one validation method is used in an on-lir banking system.
•	
(Organisations make extensive use of ICT. Other than the data itself, describe three facto
	affecting the efficiency of data processing systems.
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4.

a)	Describe, using a suitable example, the role of CAD and CAM in this process	. [3
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• • • • • • •		
	Cive two edventeres and are disadventere that CAD gives the company	
b)	Give two advantages and one disadvantage that CAD gives the company.	[3
(b)	Give two advantages and one disadvantage that CAD gives the company.	[3
o)	Give two advantages and one disadvantage that CAD gives the company.	[3
o)	Give two advantages and one disadvantage that CAD gives the company.	[3
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State what is n	neant by the terr fits of <i>EPOS</i> for	n <i>EPOS</i> , desci	ribe the process	that takes place	at the <i>EPO</i>	S and [5]
State what is n give two bene	neant by the tern fits of <i>EPOS</i> for	n <i>EPOS</i> , descr the customer .	ribe the process	that takes place	at the <i>EPO</i>	
State what is n give two bene	neant by the terr fits of <i>EPOS</i> for	n <i>EPOS</i> , descr the customer .	ribe the process	that takes place	at the <i>EPO</i>	
give two bene	fits of <i>EPOS</i> for	the customer .	ribe the process			[5]
give two bene	fits of <i>EPOS</i> for	the customer .				[5]
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give two bene	fits of <i>EPOS</i> for	the customer .				[5]
give two bene	fits of <i>EPOS</i> for	the customer .				[5]



, .	
(a)	State the three main components of an expert system and describe the <i>advantages</i> a disadvantages of using an expert system for patient care.
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(b)	Describe, using examples, how blood tracking and body scanning are used in patient care. Discuss the <i>advantages</i> and <i>disadvantages</i> each of these methodologies has brought to patient care. [10]



Examiner only

SECTION B

Answer all questions.

(a)	Describe what is meant by simulation modelling.	
(b)	Describe the advantages and disadvantages of using simulation modelling in analysis.	car cra
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YOU MUST REFER TO YOUR OWN SPREADSHEET TO ANSWER THE FOLLOWING QUESTION.

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

MAKE SURE THAT YOU SHOW IN YOUR ANSWER WHERE THE PROCESSES, FUNCTIONS/FORMULAS CAN BE FOUND IN YOUR SPREADSHEET.
FOR EXAMPLE PAGE 6 CELL D4.

10.	(a)	Describe the purpose or function of one formula from list A and two <i>different</i> formul from list B , which you have used in your spreadsheet.	as [6]
		A: SUM, COUNT, MAX, MIN, AVERAGE, RAND B: Single IF, Multiple IF, DATE, ROUND	
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	Describe two methods you used in your spreadsheet to try and ensure that incorrect data was not entered in your spreadsheet. [6]
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•••••	
•••••	
(c)	Describe a SORT used in your spreadsheet and state why you required the data to be
	sorted. [2]
(d)	Describe an example of absolute addressing you used in your spreadsheet and give the reason you used it. [2]
(d)	Describe an example of absolute addressing you used in your spreadsheet and give the
(d)	Describe an example of absolute addressing you used in your spreadsheet and give the
(d)	Describe an example of absolute addressing you used in your spreadsheet and give the

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

END OF PAPER

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