Surname

Centre Number

Candidate Number

Other Names

GCE AS/A level

1241/01

INFORMATION AND COMMUNICATION TECHNOLOGY – IT1 Information Systems

A.M. MONDAY, 2 June 2014

2 hours 15 minutes

Suitable for Modified Language Candidates

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) 1. Define the terms information and knowledge. Then give two different examples to illustrate the relationship between information and knowledge. [6] Describe using appropriate examples, two ways in which good quality information can (b) add value to an organisation. Do not use aiding the decision making process in your answer. [4]

Examiner only

10

Organisations make extensive use of ICT. Describe three factors affecting the efficiency of data processing systems. Do not use data itself in your answer. [6]	Define the term <i>validation</i> . Name and describe how o banking system.		Examine only
processing systems. Do not use data itself in your answer. [6]			
processing systems. Do not use data itself in your answer. [6]			
processing systems. Do not use data itself in your answer. [6]			\bigcirc
	Organisations make extensive use of ICT. Describe th processing systems. Do not use data itself in your an	hree factors affecting the efficiency of data [6]	3
			\sim

(a)	Describe the role of <i>CAD</i> and <i>CAM</i> in this process. Use a suitable example in your answer. [3]	
(b)	Give two advantages and one disadvantage that CAD gives the company. [3]	
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4

Hospitals make substantial use of data handling software. Describe the following features. Explain how **each** benefits a hospital. (i) Query [2] [2] (ii) Report [2] (iii) Import/Export _____

5

5.

Examiner only

6

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Examiner only People and organisations are very concerned about the increasing use of computers for criminal purposes. Name **two** Acts. For **each** Act describe a concern and how the legislation has been 6. used to try and address it. [2×3] State what is meant by the term EPOS. Describe the process that takes place at the EPOS. 7. Give two benefits of EPOS for the customer. [5]

	ing for patients.
(a)	State the three main components of an expert system. Describe the <i>advantages</i> and <i>disadvantages</i> of using an expert system for patient care. [8]

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(b)	Describe how blood tracking and body scanning are used in patient care. Use examples in your answer. Discuss the <i>advantages</i> and <i>disadvantages</i> each of these methodologies has brought to patient care. [10]	Examiner only
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		18

		SECTION B	Examiner only
	Answer all questions.		
9.	(a)	Describe what is meant by <i>simulation modelling</i> . [1]	
	······		
	(b)	Describe the advantages and disadvantages of using <i>simulation modelling</i> in car crash analysis. [3]	
	·····		
	<u>.</u>		4

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only 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 different formulas from list **B**, which you have used in your spreadsheet. [6] A: SUM, COUNT, MAX, MIN, AVERAGE, RAND B: Single IF, Multiple IF, DATE, ROUND

Examiner

(b)	Describe two methods you used in your spreadsheet to try and ensure that incorrect data was not entered in your spreadsheet. [6]	Examiner only
(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. Give the reason you used it. [2]	
E	NSURE YOU ATTACH THE PRINTOUTS OF YOUR SPREADSHEET TO YOUR EXAMINATION ANSWER PAPER.	16

END OF PAPER (1241-01)

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