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Surname	Centre Number *	Candidate Number
Other Names		2



#### GCE AS/A level

1241/01



# INFORMATION AND COMMUNICATION TECHNOLOGY – IT1 Information Systems

A.M. MONDAY, 6 June 2016

2 hours 15 minutes

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

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

## **SECTION A**

## Answer all questions.

(a)	Give <b>two</b> knowledge		examples	WINOIT	mastrato	uic	Tolatio	ПОПІР	50111	0011	[2	2 :
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<ol> <li>There are several ways a human can interface with a computer. Give an appropriate different application (use), an advantage and a disadvantage, for both of the following Human Computed Interfaces (HCIs).</li> </ol>						
	Graphical User Interface Command Line Interface	[2 × 3]				
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lisadvantages	of email to an	organisation.		[5]
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manager of the	he estate ager	ents to improve its use onts, what each of the follow	of <i>presentation software</i> . owing features are and ex	Describe to the
A firm of est manager of to one could be	he estate ager	its, what each of the follo	owing features are and ex	cpiairi now each
manager of the	he estate ager	ants to improve its use on ts, what each of the follo animated transitions	of <i>presentation software.</i> owing features are and ex data compression	Describe to the cplain how <b>each</b>
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manager of the	ne estate ager nefit the firm: templates	animated transitions	owing features are and ex	[3 × 2]
manager of the	ne estate ager nefit the firm: templates	animated transitions	data compression	[3 × 2]
manager of the	ne estate ager nefit the firm: templates	animated transitions	data compression	[3 × 2]
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manager of the	ne estate ager nefit the firm: templates	animated transitions	data compression	[3 × 2]

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5.	Business has benefited from using ICT to process large amounts of data rather than using manual methods. Other than <i>repetitive processing</i> and <i>the speed of searching and processing</i> , describe <b>three</b> <i>other</i> advantages of using ICT to process data and illustrate each advantage with a <i>different</i> example. [3 × 2]		1241
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Define what is meant by the term <i>data verification</i> and describe a method of data verification that can be used in on-line shopping. [3]	
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Describe the use and impact ICT has had upon <i>music</i> and <i>photography</i> as a form of home entertainment and leisure. $[2 \times 3]$	;
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Examiner

(a)	One use is to register pupils. Describe <b>four</b> different computer based methods of registration used in schools and colleges and discuss <b>six</b> advantages computer based registration systems give the school or college. [10 QWC]
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	e <sup>2</sup>
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(b)	(CAL) software. Describe <b>three</b> advantages and <b>one</b> disadvantage of distance learning and <b>three</b> different advantages and a different disadvantage of CAL software. [8]
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#### **SECTION B**

## Answer all questions.

9.	Weather forecasting makes extensive use of simulation modelling. Give <b>two</b> advantages a <b>two</b> disadvantages of using simulation modelling for weather forecasting.	and [4]
		••••
		•••••



# 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 of <b>two</b> functions from the list below, which you have used in your spreadsheet. [2 × 2]
		SUM, COUNT, MAX, MIN, AVERAGE, RAND
•		
	(b)	Describe the purpose of a VLOOKUP function you used in your spreadsheet and give <b>two</b> advantages of using the VLOOKUP function. [3]
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(c)	spreadsheet.
(d)	Describe the purpose of:  (i) a macro, you used in your spreadsheet;
	(ii) a search, you used in your spreadsheet;
	(iii) a graph, you used in your spreadsheet.

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

#### **END OF PAPER**

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