

Surname	Centre Number	Candidate Number
Other Names		2



**GCE AS/A level**

1241/01

**INFORMATION AND COMMUNICATION TECHNOLOGY – IT1**  
**Information Systems**

A.M. FRIDAY, 17 January 2014

2 hours 15 minutes

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

**INSTRUCTIONS TO CANDIDATES**

Use black ink or black ball-point pen. Do not use pencil or gel pen. Do not use correction fluid.

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.

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

1241-010001

**SECTION A**

*Answer all questions.*

1. Data is often encoded in order to store it more efficiently in a database. One advantage of encoding data is that it takes up less memory on the hard disk.

(a) Give **two** other advantages of encoding data before it is entered into a database. [2]

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(b) Give **two** problems associated with encoding data and for **each** give a *different* appropriate example. [2×2]

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2. (a) Other than *accuracy* and *completeness*, describe **four** other characteristics of good quality information. [4]

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(b) Describe **two** different costs associated with good quality information. Illustrate **each** cost with a *distinctly different* suitable example. [2×2]

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3. (a) Explain the exact purpose of verification. [1]

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(b) State a method of verification and illustrate your answer with an appropriate example. [2]

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3

4. A user interface is the way in which humans and computers can communicate with each other. For **each** of the following Human Computer Interfaces (HCI), give an example of a *use*, an *advantage*, and a *disadvantage*.

(a) Speech Recognition Interface. [3]

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(b) Graphical User Interface. [3]

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6

5. Other than *speed of processing* or *speed of searching*, describe, giving suitable *different* examples for **each, three other** advantages of using ICT over manual methods of processing data. [3×2]

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6. A school wants to use software to create a presentation for its Open Evening. Explain what is meant by **each** of the following functions of the software and give a benefit of using **each** one in this presentation.

(a) Animated transitions

[2]

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(b) Templates

[2]

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(c) Importing files

[2]

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**SECTION B**

*Answer all questions.*

9. A design company uses spreadsheet software for financial modelling. Give **two** advantages to the company of using spreadsheets for financial modelling and illustrate **each** with a specific use. [2×2]

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(c) Describe the purpose of the following features or functions you have used in your spreadsheet.

(i) A macro [2]

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(ii) A sort [2]

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(iii) A graph [2]

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**END OF PAPER**

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