

Candidate Name	Centre Number	Candidate Number
		2



GCE AS/A level

1241/01

**INFORMATION AND
COMMUNICATION TECHNOLOGY**

IT 1

INFORMATION SYSTEMS

P.M. TUESDAY, 18 May 2010

2¼ hours

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

INSTRUCTIONS TO CANDIDATES

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer **all** questions.

Write your answers in the spaces provided in this booklet. 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.

You must refer to your own spreadsheet to answer Question 10.

SECTION A

Answer all questions

1. A good Human Computer Interface (HCI) is important in an ICT system. For **each** of the following HCI give an example of its use, and also **one** advantage and **one** disadvantage. [2×3]

(a) Command Line

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(b) Graphical User Interface

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(b) ICT systems process data faster than manual systems. Describe **two additional** advantages of ICT over manual methods of data processing using suitable examples in **each** case. [2×2]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

S10 1241 01 5

7

5. *Validation* and *verification* are very important in online shopping systems.

(a) Explain in detail the difference between validation and verification. [2]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(b) Describe, using suitable *different* examples how **both** validation and verification are used to reduce data entry errors in online shopping systems. [2×2]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

6. Database programs are often used for medical record keeping. Define **each** of the following functions of a database and give an appropriate example of its use in this context. [3×2]

(a) Query

.....

.....

.....

.....

.....

.....

.....

.....

(b) Report

.....

.....

.....

.....

.....

.....

.....

.....

(c) Import/export

.....

.....

.....

.....

.....

.....

.....

.....

7. A person has decided to network the standalone computers in their home.

(a) Discuss the advantages and disadvantages of networks, when used in *the home*. [3]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(b) Describe the benefit of having access to the Internet at home. [2]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

5

(ii) Identify where you used a *graph* in your spreadsheet and describe its purpose. [2]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(c) Describe **two** methods of *simplifying data entry* you used in your spreadsheet. Give a *different* benefit for **each** method. [2×2]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

- (d) Identify and describe the purpose or function of **two** other *different* advanced processes you used in your spreadsheet. [2×2]
Do not describe any formula, function or process used earlier in parts 10 (a), (b) or (c)

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

16