

Surname	Centre Number	Candidate Number
Other Names		2



GCE AS/A level

1241/01

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

P.M. MONDAY, 3 June 2013

2¼ hours

Suitable for Modified Language Candidates

For Examiner's use only		
Question	Maximum Mark	Mark Awarded
1	6	
2	8	
3	4	
4	6	
5	8	
6	4	
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 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.

SECTION A

Answer all questions.

1. An ICT system needs a good Human Computer Interface (HCI). For **each** of the following HCI give an example of *how it could be used* and also **one** advantage and **one** disadvantage.

(a) Voice interfaces.

[3]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(b) Touch sensitive screens.

[3]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

6

2. Good quality information is needed to make informed decisions.

(a) Describe **four** *different* characteristics of good quality information. Do not use '*complete*' for your answer. [4]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(b) Describe **two** of the costs involved in getting good quality information. Use *distinctly different* examples for your answer. [4]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

3. Name and describe **two different** crimes covered by the Computer Misuse Act. Use distinct examples in your answer. [4]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

4

4. A company uses word processing/DTP software. Define **each** of the following functions of word processing/DTP software. Give an *appropriate* example of how **each** can be used by the company. [6]

(a) Templates.

.....
.....
.....
.....
.....

(b) Macros.

.....
.....
.....
.....
.....

(c) Mailmerge.

.....
.....
.....
.....
.....

1241
010005

6

5. (a) Validation is very important in modern data processing systems.

(i) Define what is meant by the term '*validation*'. [1]

.....

.....

.....

(ii) Name and describe, a validation method that could be used in a student record keeping system. Use an example in your answer. [3]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(b) Describe **four** factors that could affect the efficiency of data processing systems. Do not describe the data itself in your answer. [4]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

7. Schools and colleges make use of distance learning **and** Computer Assisted Learning (CAL) software.

(a) Describe **two** advantages and **one** disadvantage of *distance learning*. [3]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(b) Describe **two** advantages and **one** disadvantage of *CAL* software. Do not give the same advantages and disadvantage as in part (a). [3]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

**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
FUNCTIONS/FORMULAS CAN BE FOUND IN YOUR SPREADSHEET.**

- 10.** (a) Describe the purpose of **two** functions from the list below, which you have used in your spreadsheet. [2×2]

Single IF, Multiple IF, DATE, ROUND

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

- (b) Describe the purpose of a VLOOKUP function you used in your spreadsheet. [3]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(c) Describe a validation method you used to ensure that invalid data was not used in your spreadsheet. [3]

.....

.....

.....

.....

.....

.....

.....

.....

.....

(d) Describe the purpose of:

(i) A graph, you used in your spreadsheet. [2]

.....

.....

.....

.....

.....

.....

.....

- (ii) Two other functions/formulas you used in your spreadsheet.
You may not use any function mentioned in 10(a), 10(b) or 10(c).

[2×2]

Examiner
only

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

16

END OF PAPER

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

