

ADVANCED GCE

**APPLIED INFORMATION AND COMMUNICATION
TECHNOLOGY**

G054

Software Development

Candidates answer on the question paper.

OCR supplied materials:

- Instructions for Candidates G054/IC (inserted)

Other materials required:

- Candidate's pre-prepared materials

**Friday 21 January 2011
Morning**

Duration: 1 hour 30 minutes



Candidate forename		Candidate surname	
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Centre number						Candidate number				
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INSTRUCTIONS TO CANDIDATES

- The insert will be found in the centre of this document.
- Write your name, centre number and candidate number in the boxes above. Please write clearly and in capital letters.
- Use black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Write your answer to each question in the space provided. Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
- Answer **all** the questions.
- Do **not** write in the bar codes.
- Attach your pre-prepared materials for tasks 1-4.

INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [] at the end of each question or part question.
- The total number of marks for this paper is **100**.
- No marks will be awarded for using brand names of software packages or hardware.
- The quality of your written communication will be assessed through Q6 and Q12.
- This document consists of **12** pages. Any blank pages are indicated.

For Examiner's Use		Max
Task 2		15
Task 3		10
Task 4		5
1		6
2		4
3		8
4		6
5		4
6		12
7		6
8		4
9		2
10		8
11		3
12		7
Total		100

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3 During the development of the feasibility study functional requirements are defined.

(a) Describe **one** functional requirement that has been defined by the administration staff.

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..... [2]

(b) Describe the defined hardware non-functional requirements.

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..... [6]

4 During the development of the feasibility study, process constraints should be considered.

(a) Describe the defined software constraint.

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..... [2]

(b) (i) Identify **one** other process constraint, apart from budget and hardware, that has been defined by A Clean House.

..... [1]

(ii) Describe how this has been defined by A Clean House.

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..... [3]

5 Describe the problems caused by the current system which relate to the customers of A Clean House.

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..... [4]

7 The Cleaning Manager of A Clean House will be interviewed during the feasibility study.

Describe **two** advantages and **one** disadvantage of using interviews as an investigation method.

Advantage 1

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Advantage 2

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Disadvantage

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[6]

8 Following the implementation of the new system, user manuals will be passed to A Clean House.

Explain how user manuals can be used by the staff of A Clean House.

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[4]

Section B

You do not need the case study or your notes to answer these questions.

9 During the design of a new system, a physical design specification is developed.

Identify **two** components of the hardware specification part of the physical design specification.

Component 1

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Component 2

..... **[2]**

10 Dataflow diagrams and flowcharts can be used during the analysis and design stage of the systems lifecycle.

(a) Explain the function of a L0 dataflow diagram (context diagram).

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..... **[4]**

(b) Draw and label **two** components of a flowchart.

11 When a system has been developed and tested it needs to be implemented.

Describe the pilot implementation method.

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..... [3]

12 Evaluate the use of e-learning as a training method.

The quality of written communication will be assessed in your answer to this question.

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10
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