

Tuesday 22 January 2013 – Morning

A2 GCE APPLIED INFORMATION AND COMMUNICATION TECHNOLOGY

G054/01 Software Development

Candidates answer on the Question Paper.

OCR supplied materials:

- Instructions for Candidates G054/01/IC (inserted)

Other materials required:

- Candidate's pre-prepared materials for pre-release tasks 1, 2, 3 and 4.

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 inside this document.
- Write your name, centre number and candidate number in the boxes above. Please write clearly and in capital letters.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Answer **all** the questions.
- 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).
- 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 Q5 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		4
2		8
3		6
4		6
5		12
6		6
7		4
8		4
9		2
10		6
11		4
12		8
Total		100

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SECTION A

This section relates to the case study on The Mobile Car Wash

1 One of the purposes of the proposed system is to produce reports.

Describe **two** other purposes of the new system.

1

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2

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[4]

2 During the development of the feasibility study, functional and non-functional requirements are defined.

(a) Identify the functional requirements that have been defined by the valeting staff relating to the order form.

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[4]

(b) Describe **two** defined non-functional requirements which relate to hardware.

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[4]

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

(a) Describe the defined time process constraint.

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[3]

(b) (i) Identify **one** other process constraint, apart from hardware and software, that has been defined by The Mobile Car Wash.

..... **[1]**

(ii) Describe how this has been defined by The Mobile Car Wash.

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[2]

4 During the development of the feasibility study, user requirements are defined.

Explain the term user requirements, using examples from The Mobile Car Wash.

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6 A questionnaire could be used to gather information during the feasibility stage.

Describe **two** advantages and **one** disadvantage to The Mobile Car Wash of using a questionnaire as an investigation method.

Advantage 1

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Advantage 2

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Disadvantage

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[6]

7 Following the implementation of the system at The Mobile Car Wash, preventative maintenance may need to be carried out.

Describe the purpose of preventative maintenance.

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[4]

- 8 Following the implementation of the new system, recovery procedures will be passed to The Mobile Car Wash.

Explain how version details could be used by The Mobile Car Wash during the life of the system.

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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.

1

2

[2]

10 During the systems life cycle a data dictionary could be developed.

(a) Explain the function of a data dictionary.

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[4]

(b) Identify **two** components of a data dictionary.

1

2

[2]

11 Identify and describe **one** physical and **one** logical security measure that could be used in a business.

Physical

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Logical

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[4]

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