

Tuesday 11 June 2013 – Afternoon

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 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. 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 Q8 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		6
3		7
4		6
5		3
6		6
7		4
8		12
9		2
10		3
11		7
12		8
Total		100

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

(a) Describe **one** functional requirement that has been defined by the Warehouse Manager.

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

(b) Describe **two** functional requirements that have been defined by the administration staff.

1
.....
.....
..... [2]

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

3 Process constraints should be considered during the development of the feasibility study.

(a) Describe the defined hardware process constraint which relates to the valeters.

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..... [3]

(b) (i) Identify **one** other process constraint, apart from time and budget, 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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..... [3]

4 Some of the problems caused by the current system relate to the ordering of stock by the valeters.

Describe **three** problems relating to the ordering of stock by the valeters.

1

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2

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3

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[6]

5 Customer details will be held by The Mobile Car Wash.

Identify the most suitable type of software for this task, justifying your choice.

Software type

Justification

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..... [3]

6 As part of the feasibility study, recommendations about software are made.

Describe **two** advantages and **one** disadvantage of recommending off-the-shelf software for The Mobile Car Wash.

Advantage 1

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Advantage 2

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Disadvantage

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[6]

7 Following the implementation of the new system into The Mobile Car Wash, errors in the calculations have been found by the users.

Identify and describe the maintenance strategy that would be used to correct these errors.

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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 an output specification is developed.

One component of an output specification is methods of data output.

Identify **two** other components of an output specification.

1

2 [2]

10 Verification and validation can be used to check the data that is being input into a system.

(a) Explain the term **verification**.

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

(b) Identify **one** method of **validation**.

..... [1]

11 A company sells pet food through a website.

Orders over £75 are given a 10% discount.

A charge of £5 is added for standard 48 hour delivery. However, if an express 24 hour delivery is required then a charge of £15 is added.

A delivery note is printed and included with the order.

Draw a flowchart to show the processing of a customer's order.

[7]

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