



**Tuesday 17 June 2014 – 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

**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).
- Attach your pre-prepared materials for tasks 1–4.
- Do **not** write in the bar codes.

**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 given for using brand names of software packages or hardware.
- The quality of your written communication will be assessed through Q7 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		6
3		7
4		4
5		4
6		4
7		12
8		4
9		5
10		6
11		6
12		8
Total		100



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

(a) Describe the defined software process constraint.

.....  
.....  
.....  
.....  
.....  
..... [3]

(b) (i) Software, time and budget are process constraints.

Identify **one** other process constraint that has been defined by Tools Unlimited.

..... [1]

(ii) Describe how this process constraint has been defined by Tools Unlimited.

.....  
.....  
.....  
.....  
.....  
..... [3]

4 One of the main problems caused by the current system relates to stock ordering.

Describe **two** problems relating to the current stock ordering process.

1 .....

.....

.....

.....

2 .....

.....

.....

.....

[4]

5 One of the user requirements defined by the owner of Tools Unlimited is that there should be increased security.

Describe **two** defined user requirements that relate to the outputs from the new system.

1 .....

.....

.....

.....

2 .....

.....

.....

.....

[4]

6 The new system could be created by developing a bespoke system.

Explain **one** advantage and **one** disadvantage of creating a bespoke system for Tools Unlimited.

Advantage .....

.....

.....

.....

Disadvantage .....

.....

.....

.....

[4]



8 Following the development of the new system, it will need to be implemented.

Explain **one** advantage and **one** disadvantage to Tools Unlimited of using the direct (big bang) implementation method.

Advantage .....

.....

.....

.....

Disadvantage .....

.....

.....

.....

[4]

9 The owner of Tools Unlimited has asked that the customer records are held on computer.

(i) Identify the Act that must be considered when holding customer records.

..... [1]

(ii) Describe **two** actions which Tools Unlimited must take to comply with this Act.

1 .....

.....

.....

.....

2 .....

.....

.....

.....

[4]

**SECTION B**

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

**10** After a new system has been developed and implemented, documentation is passed to the user.

Explain why the following pieces of documentation should be passed to the end-user of a system.

**(i)** Detailed program specifications .....  
.....  
.....  
.....  
.....  
.....  
..... **[3]**

**(ii)** Version details .....  
.....  
.....  
.....  
.....  
..... **[3]**



11 Data Flow Diagrams (DFD) are one technique which can be used during the design stage.

(i) A process is one component of a L1 DFD.

Draw and label **two** other components of a L1 DFD.

[4]

(ii) Identify **two** other techniques which can be used during the analysis and design stage.

1 .....

.....

2 .....

.....

[2]

**Question 12 begins on page 10**



11  
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