ADVANCED GCE

APPLIED INFORMATION AND COMMUNICATION TECHNOLOGY

Software Development

G054

Candidates answer on the Question Paper

OCR Supplied Materials:
*   Instructions for Candidates G054/IC (inserted)

Other Materials Required:
*   Candidate's pre-prepared materials

Friday 22 January 2010
Morning

Duration: 1 hour 30 minutes

Candidate Forename		Candidate Surname	

Centre Number						Candidate Number				

INSTRUCTIONS TO CANDIDATES

*   Write your name clearly in capital letters, your Centre Number and Candidate Number in the boxes above.
*   Use black ink. Pencil may be used for graphs and diagrams only.
*   Read each question carefully and make sure that you know what you have to do before starting your answer.
*   Answer **all** the questions.
*   Do **not** write in the bar codes.
*   Write your answer to each question in the space provided, however additional paper may be used if necessary.
*   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.
*   This document consists of **12** pages. Any blank pages are indicated.

Examiner's Use Only:			
1		9	
2		10	
3		11	
4		12	
5			
6			
7			
8			
Total			

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Section A

This section relates to the case study on Hideaway Sheds.

1   One of the purposes of the proposed system is to standardise the software used.

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

Purpose 1 ....

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Purpose 2 ....

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.... **[4]**

2   One of the user requirements defined by the owner of Hideaway Sheds is that there should be increased security.

Describe **two** other user requirements that have been defined by the owner of Hideaway Sheds.

Requirement 1 ....

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Requirement 2 ....

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.... **[4]**

Turn over

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

(a) Describe the functional requirement that has been defined by the staff who work in the warehouse.

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.... **[4]**

(b) Describe the defined functional requirements that relate to the customers and orders.

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.... **[3]**

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

   (a) Describe the software constraint that has been defined by the owner of Hideaway Sheds.

   ....

   ....

   .... **[3]**

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

   .... **[1]**

   (ii) Describe how this has been defined by Hideaway Sheds

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   .... **[2]**

5 Describe the problems caused by the current system at Hideaway Sheds, which are having a direct impact on the customers.

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   .... **[6]**

Turn over

6   During the life of the system it may be necessary to carry out maintenance.

Explain, using examples relating to Hideaway Sheds, the different types of maintenance strategies that can be used.

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

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.... **[12]**

7 An increased number of staff may be using the new system.

(i) Identify the Act that relates to the layout of the staff workstations.

.... **[1]**

(ii) Explain the implications of the Act to Hideaway Sheds

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.... **[6]**

8 The increased security of the data and information held on the computers at Hideaway Sheds has been defined as one of the user requirements.

Describe **two** physical security measures that could be used by Hideaway Sheds.

Measure 1 ....

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Measure 2 ....

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.... **[4]**

Section B

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

9 Following the development and implementation of a new system, user documentation is passed to the end-user.

Explain how the following documentation may be used at a future time in the life of the system.

version details ....

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.... **[2]**

detailed program specifications ....

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.... **[3]**

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

Identify **three** components of the input specification part of the physical design specification.

Component 1 ....

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Component 2 ....

.... **[2]**

11 A software solution is being developed for an insurance company. The software solution needs to automatically select and archive documents.

A document that was created more than 18 months ago and has not been accessed within the last 6 months is to be archived. Draft documents do not need to be archived.

Complete the decision table below to specify the processing required.

	Rule 1	**Rule 2**	**Rule 3**	**Rule 4**	**Rule 5**	**Rule 6**	**Rule 7**	**Rule 8**
Conditions								
Actions								

[6]

12 Evaluate the use of decision tables as a tool in the systems life cycle.

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.... **[7]**

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