

ADVANCED GCE

**APPLIED INFORMATION AND COMMUNICATION
TECHNOLOGY**

G055

Networking Solutions

Candidates answer on the question paper.

OCR supplied materials:

- Instructions for candidates G055/IC (inserted)

Other materials required:

- Candidate's pre-prepared materials

**Wednesday 26 January 2011
Afternoon**

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.
- Attach your pre-prepared materials for tasks 1–3.
- 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 Q4(b) and Q11.
- This document consists of **12** pages. Any blank pages are indicated.

For Examiner's Use		Max
Task 2		21
Task 3		9
1		12
2		2
3		6
4		13
5		4
6		7
7		6
8		2
9		3
10		4
11		11
Total		100

Section A

These questions refer to the Recycled Garden Company Ltd (RGC) case study.

- 1 (a)** Explain **two** methods that RGC could use to share information across the network.

Method 1

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Method 2

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..... [6]

- (b)** Identify **two** resources, other than information, that can be shared more easily at RGC when they have a network and describe how each would be used.

Resource 1

Description

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.....

.....

Resource 2

Description

.....

.....

..... [6]

2 Describe **one** benefit for the sales staff at RGC of having access to eCommerce.

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..... [2]

3 Explain **one** advantage and **one** disadvantage to RGC of using a star network topology.

Advantage

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Disadvantage

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..... [6]

5 The RGC network has a company-wide internet connection.

Describe **two** functions of a proxy server in this network.

Function 1

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.....

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Function 2

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..... [4]

6 The main server on the RGC network will be a file server.

(a) Describe **two** functions of the file server on the RGC network.

Function 1

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Function 2

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..... [4]

(b) Identify three benefits of using this server to manage network security.

Benefit 1

.....

Benefit 2

.....

Benefit 3

..... [3]

7 RGC will need some protocol software to enable the computers on their network to communicate effectively with each other.

(a) (i) Identify a suitable protocol for the RGC network.

..... [1]

(ii) Explain what this protocol does.

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..... [3]

(iii) Describe why this protocol is suitable for the RGC network.

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..... [2]

Section B

These questions DO NOT relate to the case study.

8 Describe **one** way that a communications log can be used to help maintain a network.

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..... [2]

9 When a connection is set up between a network and the internet it is common practice to document all the settings.

Explain the reasons for documenting all the settings.

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..... [3]

10 Back strain is often associated with poor workstation design.

Explain how a workstation can be designed to reduce this risk.

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..... [4]

10
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