



Tuesday 17 June 2014 – Morning

A2 GCE INFORMATION AND COMMUNICATION TECHNOLOGY

G063/01 ICT Systems, Applications and Implications

Candidates answer on the Question Paper.

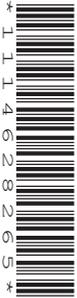
OCR supplied materials:

None

Other materials required:

None

Duration: 2 hours



Candidate forename		Candidate surname	
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Centre number						Candidate number				
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INSTRUCTIONS TO CANDIDATES

- 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.

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 120, of which marks are allocated to the assessment of the quality of written communication where an answer requires a piece of extended writing. These questions are marked with an asterisk (*).**
- This document consists of **20** pages. Any blank pages are indicated.

2

SECTION A

Answer **all** questions

1 Describe the purpose of the following types of software.

Operating System

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Utility

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Application

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[6]

2 Describe **two** limitations of the use of meetings when a systems analyst investigates a system.

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2

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[4]

10 24-7 News provides an extranet.

Explain **two** advantages of an extranet to 24-7 News.

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[4]

11 24-7 News stores data on its servers.

(a) Explain **two** reasons why the data needs to be kept confidential.

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[4]

(b) Explain **two** physical security measures that 24-7 News could implement to protect its data.

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[4]

12 A custom-written application will be created for customers to access 24-7 News' services from their smart phones.

(a) Describe how 24-7 News could be involved as a client during the design, testing and installation stages of the systems life cycle.

Design

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Testing

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Installation

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[6]

(b) Explain how a project manager could use a Gantt chart in the planning of the smart phone project.

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[4]

A systems designer is a member of the project team working on the smart phone application. One role of the systems designer is to design the user interface.

(c) Describe **two** other roles of the systems designer.

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[4]

(d) Explain **two** ways a potential user's learning should be considered when designing the user interface for the application.

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[4]

(g) 24-7 News plans to review the application after its launch.

Explain **two** reasons for conducting a review after the application's launch.

1

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[4]

13 The smartphone application needs a password. Create a flowchart for the process of changing a password that has the following requirements:

- A new password and a copy of the new password must be entered. The password entry must be verified.
- A calculation takes place to determine the password strength. Passwords are either strong or weak. Only strong passwords will be accepted.
- If the routine is not successful the user will be given an appropriate feedback message. If the routine is successful the user will be given a confirmation message.
- If an error occurs during the routine, it will start again.

[6]

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Question 15 begins on page 16

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