

**OXFORD CAMBRIDGE AND RSA EXAMINATIONS
AS GCE**

G061/01

**INFORMATION AND COMMUNICATION
TECHNOLOGY**

Information, Systems and Applications

MONDAY 6 JUNE 2016: Morning

**DURATION: 2 hours
plus your additional time allowance**

MODIFIED ENLARGED

Candidate forename						Candidate surname				
Centre number						Candidate number				

Candidates answer on the Question Paper.

OCR SUPPLIED MATERIALS:
None

OTHER MATERIALS REQUIRED:
None

READ INSTRUCTIONS OVERLEAF

INSTRUCTIONS TO CANDIDATES

Write your name, centre number and candidate number in the boxes on the first page. 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).

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.

Quality of written communication will be assessed in questions marked with an asterisk (*).

Any blank pages are indicated.

Camping4Fun is a company that runs an online store specialising in the sale of camping equipment.

1 The online store contains information on products for sale.

(a) One definition of information is:

Information = data + context + meaning + structure.

State what is meant by context and structure and give an example of each.

Context _____

Example _____

Structure _____

Example _____

[4]

- (b) Two characteristics of data are that it is made up of alphanumeric characters, and it has no context, structure or meaning.

Identify TWO OTHER characteristics of P1324Z that makes it data.

1 _____

2 _____

[2]

(c) The online store uses information from indirect sources in its review of products it sells.

Explain TWO ADVANTAGES of using an indirect source to obtain information to use for product reviews.

1 _____

2 _____

[4]

2 Camping4Fun has offices and a warehouse where online orders are received and dispatched.

(a) Camping4Fun has installed a stock control system.

Describe THREE ways Camping4Fun could make use of the stock control system.

1 _____

2 _____

3 _____

[6]

(b) (i) The stock control system uses a forms interface.

Describe TWO characteristics of a forms interface used in a stock control system.

1 _____

2 _____

[4]

(ii) Identify THREE OTHER types of interface that could be used.

1 _____

2 _____

3 _____

[3]

- 3 When a new customer places an order they are asked to register.
When they register, they choose a username and password.
If the username has already been used, they are asked to choose a different one.
This continues until the username chosen is unique.**

Using the example above, describe the terms:

Input _____

Processing _____

[4]

4 Camping4Fun is investigating opening a high street store to sell its goods.

(a) Explain TWO ADVANTAGES of using a spreadsheet to model the first year's sales.

1 _____

2 _____

[4]

(b) Describe THREE ADVANTAGES of using software to plan the layout of the store.

1 _____

2 _____

3 _____

[6]

Justify the use of a concept keyboard.

[6]

[illegible]

6 Camping4Fun has been invited to give a presentation about camping accessories.

It has hired a designer to create a house style for the presentation.

(a) (i) Explain TWO ADVANTAGES of having a house style.

1 _____

2 _____

[4]

(ii) Identify TWO elements the designer would include in the house style of the presentation.

1 _____

2 _____

[2]

(b) Camping4Fun wants images to go into the presentation.

Describe TWO DISADVANTAGES of using an image library to select images for the presentation.

1 _____

2 _____

[4]

(c) Camping4Fun could use vector or bitmap images in the presentation.

Describe TWO characteristics of VECTOR images.

1 _____

2 _____

[4]

(d) Camping4Fun could use a computer and projector or printed acetate to deliver the presentation.

(i) Describe TWO DISADVANTAGES of using a computer and projector, instead of printed acetate, to deliver a presentation.

1 _____

2 _____

[4]

(ii) Describe TWO ADVANTAGES of the presentation being hierarchical.

1 _____

2 _____

[4]

(e) Describe the following features of presentation software that could be used in the presentation.

Hotspots _____

Video _____

[4]

(f) Identify THREE possible safety problems that should be considered when setting up and delivering the presentation.

1 _____

2 _____

3 _____

[3]

7 Camping4Fun has decided to update its stock control and customer management database.

(a) The database contains real and boolean data types.

Describe the following data types and give an example of the use of each in the database.

Real _____

Use _____

Boolean _____

Use _____

[4]

(b) Identify the most appropriate data type for the following fields.

Number in stock _____

Description of item _____

[2]

(c) The database is made up of tables, records and fields.

Describe what is meant by the following terms.

Table _____

Record _____

Field _____

[6]

- (d) The database contains the following entities:
CUSTOMER, ORDER, SUPPLIER, PRODUCT.

Identify the degree of the relationship between the following entities.

PRODUCT and SUPPLIER

CUSTOMER and ORDER

ORDER and PRODUCT

[3]

- (e) The database has been normalised.

- (i) One characteristic of 2NF is that the data must already be in 1NF.

Identify ONE OTHER characteristic of 2NF.

[1]

- (ii) One characteristic of 3NF is that the data must already be in 2NF.

Identify ONE OTHER characteristic of 3NF.

[1]

8 The database will have a customised user interface.

(a) Using examples, describe TWO ways the user interface for the database could be customised.

1 _____

2 _____

[4]

(b) Explain TWO DISADVANTAGES of customising the user interface of the database.

1 _____

2 _____

[4]

9 The database has many different queries. Some of them contain static parameters, others contain dynamic parameters.

(a) Describe what is meant by a parameter.

[2]

(b) What is the difference between a static and dynamic parameter?

[1]

10 The network manager at Camping4Fun is a member of the BCS.

Explain TWO ADVANTAGES to the network manager of belonging to a professional body, such as the BCS.

1 _____

2 _____

[4]

11 The network manager has installed a network in the warehouse and offices.

Describe THREE DISADVANTAGES to the EMPLOYEES of the computers being networked.

1 _____

2 _____

3 _____

[6]

12 Camping4Fun needs to conform with the requirements of the Data Protection Act (1998) (DPA).

One of the requirements of the DPA is that data on individuals must be kept secure. Camping4Fun meets this requirement by using passwords on the system and locked doors.

(a) Describe TWO OTHER security measures Camping4Fun could introduce to keep the data secure.

1 _____

2 _____

[4]

**(b) Identify THREE OTHER requirements of the DPA.
For EACH requirement describe a measure
Camping4Fun could implement to make sure it is
met.**

1 _____

Measure _____

2 _____

Measure _____

3 _____

Measure _____

[6]



Oxford Cambridge and RSA

Copyright Information

OCR is committed to seeking permission to reproduce all third-party content that it uses in its assessment materials. OCR has attempted to identify and contact all copyright holders whose work is used in this paper. To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced in the OCR Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download from our public website (www.ocr.org.uk) after the live examination series.

If OCR has unwittingly failed to correctly acknowledge or clear any third-party content in this assessment material, OCR will be happy to correct its mistake at the earliest possible opportunity.

For queries or further information please contact the Copyright Team, First Floor, 9 Hills Road, Cambridge CB2 1GE.

OCR is part of the Cambridge Assessment Group; Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.