

**OXFORD CAMBRIDGE AND RSA EXAMINATIONS
LEVEL 1/2
R001/01**

**CAMBRIDGE NATIONAL IN ICT
Understanding Computer Systems**

WEDNESDAY 13 MAY 2015: Morning

**DURATION: 1 hour
plus your additional time allowance**

MODIFIED ENLARGED 24pt

Candidate forename						Candidate surname				
Centre number						Candidate number				

Candidates answer on the Question Paper.

OCR SUPPLIED MATERIALS:

Clean Copy Case Study

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 60.

Any blank pages are indicated.

BLANK PAGE

SECTION A

The questions in this section are based on scenario 1 in the case study and your background research.

Answer ALL the questions.

- 1 Employees at Animated World Books use a range of output devices to create the animated cartoons.
- (a) Draw a line from each output device to the MOST appropriate description of its purpose.

OUTPUT DEVICE	PURPOSE
MONITOR	To create a hardcopy of a frame from a cartoon
PRINTER	To listen to sound files
SPEAKER	To view images as they are being created

[3]

(b) Animated cartoons need sound files.

(i) Identify ONE input device that could be used to record voices for an animated cartoon.

_____ **[1]**

(ii) Describe TWO ways the sound file could be edited.

1 _____

2 _____

[4]

2 Illustrators at Animated World Books use graphics software to create the graphics for animated cartoons.

(a) Identify TWO benefits of using graphics software rather than drawing each graphic by hand on paper.

1 _____

2 _____

_____ **[2]**

(b) Identify ONE possible disadvantage of using graphics software rather than drawing each graphic by hand on paper.

_____ **[1]**

(c) Identify THREE security methods that Animated World Books could use to protect graphics files from theft.

1 _____

2 _____

3 _____

_____ **[3]**

3 The designs for the next cartoon have been stolen from Animated World Books. Catherine has been asked to create a new character and storyline. She has been given seven days to do this.

She will collaborate with Ali to design and create this character. Ali is based in California. They do not have time to visit each other.

(a) Catherine and Ali will need to quickly decide on a new character.

Describe THREE ways that Catherine and Ali can share their initial design ideas for the character.

1 _____

2 _____

3 _____

(b) Ali has used software to create some possible storylines and characters. He wants to send them electronically to Catherine.

Explain TWO factors that will affect his choice of method to send the files.

1 _____

2 _____

[4]

(c) Animated World Books will pay Ali for the actual hours that he works over the seven days.

Describe how a spreadsheet could be used to record and calculate the hours worked each day and the total hours worked over the seven days.

[3]

- 4 Catherine is going to use a free downloadable smartphone app to advertise her new character and story.**

Discuss the implications to Animated World Books and its customers of using this method to advertise the new character and story.

[illegible]

SECTION B

The questions in this section are based on scenario 2 in the case study and your background research.

Answer ALL the questions.

- 5 Customers who buy artwork from Richard's website will need to provide personal information on a data capture form on the website.**

Customers are asked to provide an email address in case there is a problem with the order.

- (a) Identify ONE input device that could be used to enter an email address on a data capture form.**

_____ **[1]**

- (b) When customers enter their email address, they are asked to do so twice.**

Explain why customers are asked to enter their email address twice.

_____ **[2]**

(c) The data that is collected on the data capture form is automatically added to a database.

Explain how the data capture form can be designed so that the data captured on the form is suitable for use in a database.

[4]

(d) Richard will need to keep the data that he collects secure.

Identify THREE implications to customers if the data Richard collects about them is not kept secure.

1

2

3

[3]

(e) Give TWO reasons why the loss of customers' data would have a negative effect on Richard's own business.

1 _____

2 _____

[2]

6 Richard uses social media to share images with friends and customers.

(a) Explain TWO advantages to Richard of using social media to share images, rather than including the images on his own website.

1 _____

2 _____

[4]

(b) Explain ONE LEGAL reason why sharing an image via a social media site may be a disadvantage to Richard.

[2]

- (c) Richard wants to upload an image that he has taken while on a journey. He does not want to transfer the image via his 3G connection.**

Describe ONE way Richard could upload his image directly from his smartphone to his account on a social media site without using his 3G connection.

[2]

- (d) Explain ONE reason why Richard may not want to use his 3G connection to upload the image.**

[2]

7 Richard frequently has headaches caused by eye strain.

(a) Identify ONE way that his computer may be configured to reduce the chances of Richard having headaches caused by eye strain.

[1]

(b) Describe ONE other action Richard may take to reduce the chances of having headaches caused by eye strain.

[2]

END OF QUESTION PAPER

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.

