OCR
Oxford Cambridge and RSA

Wednesday 18 May 2016 – Morning

LEVEL 1/2 CAMBRIDGE NATIONAL IN ICT

R001/01 Understanding Computer Systems
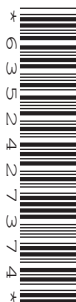
Candidates answer on the Question Paper.	**Duration:** 1 hour
OCR supplied materials: • Clean Copy of the Pre-release Case Study (R001/01 – Inserted)	
Other materials required: None	

Candidate forename		Candidate surname	

Centre number						Candidate number				

INSTRUCTIONS TO CANDIDATES

*   The Case Study Insert can be found inside this document.
*   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 **60**.
*   This document consists of **12** pages. Any blank pages are indicated.

OCR is an exempt Charity

Turn over

2

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 Bridget uses web-authoring software to maintain the Fun Gym website.

(a) Identify **one** input device that Bridget can use to add text to the website.

.... **[1]**

(b) Web-authoring software includes many tools to help create a website. One of these tools is the spell checker.

Explain how the use of the spell checker tool improves the effectiveness of the website.

....

....

....

.... **[2]**

(c) Identify **two** output devices that Bridget needs as part of her computer system when working on the website. For **each** device, state its purpose.

Device 1 ....

Purpose ....

....

Device 2 ....

Purpose ....

....
                                                                                                          [4]

2   The Fun Gym website has a 'news' section that includes photographs and articles about instructors and special events.

   (a) Identify **one** input device that can be used to capture photographs to use on the website.

   .... **[1]**

   (b) Bridget is not a very good photographer and the photographs that she takes often have to be edited to make them suitable for use on the website.

   Explain **one** reason why a photograph may need to be edited to make it suitable for use on the website.

   ....

   ....

   ....

   .... **[2]**

Turn over

4

(c) Bridget optimises her photographs before she adds them to her website.

Discuss the factors that Bridget should consider when optimising photographs for display on her website.

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.... **[8]**

5

3 Members who want to book a class have to enter a user ID and password to log on to the 'members only' section of the website.

(a) Explain **one** reason why the 'members only' section of the website is protected by a password.

....

....

....

.... **[2]**

(b) Software on the Fun Gym website stops members from booking the same session twice.

Describe **one** benefit to Fun Gym of restricting members from booking the same session twice.

....

....

....

.... **[2]**

(c) When a member logs on to the 'members only' section, the website displays a list of those classes that the member has already booked.

Describe **one** benefit to members of displaying this information.

....

....

....

.... **[2]**

Turn over

6

4   Instructors are paid for each class they lead.

Bridget uses a spreadsheet to calculate how much each instructor should be paid each month.

(a) Explain **two** reasons why spreadsheet software is suitable for calculating each instructor's monthly pay.

1 ....

....

....

....

2 ....

....

....

....
                                                                                                                                        [4]

(b) At the end of each month, each instructor is sent an encrypted file which shows their earnings for the month.

Explain **one** reason why Bridget encrypts these files before sending them.

....

....

....

.... **[2]**

7

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 Tom uses music in his classes.

(a) Identify **two** file types that would be suitable for Tom to use to store music digitally.

1 ....

2 ....

[2]

(b) Tom wants the music he has at home to be available for use in his classes.

(i) Identify **two** types of portable storage media that would be suitable for this purpose.

1 ....

2 ....

[2]

(ii) Tom sometimes forgets to bring his storage media to his classes and so he is interested in other methods he could use so that his music is available to be played.

Describe **one** other method Tom could use to make the music he has selected available for him to play in his classes.

....

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....

.... **[2]**

(c) Identify **one** possible legal implication of Tom using music in his classes and explain how this may be avoided without Tom having to stop using the music.

....

....

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....

....

.... **[3]**

Turn over

6 Every week Tom creates a poster advertising the next week's sessions.

(a) Identify the **most** suitable **type** of applications software for this purpose.

.... **[1]**

(b) Describe **one** feature of this software, other than a spell checker, which Tom could use when creating the poster.

....

....

....

.... **[2]**

7 At the start of each month, Tom sends a group email to each of his private clients.

From:	Tom Spensley ▾
To:	AJS@hostmail.co.uk; Wayne.Smith@sun.co.uk; BellaBoo@BFR.co.uk; Minnie@gallopmail.com; BIGMAX@hostmail.com; Betty@wowee.co.uk
Cc:	
Bcc:	GeoffMac@hostmail.com
Subject:	{Change this before sending} Plain Text

Tahoma ▾   10 ▾   **B** *I* U̲ T📷 🖊 😎 🔗 — ☰▾ ☷▾ ☰▾   ◈ Stationery ⟫

Sent: 7 April 2016 09:24

Dear all

Please find attached the events and competitions for next month. I strongly sudjest that you sign up for the colour run.

9

Tom made five errors when writing the group email opposite. Complete the table below to identify each error and why it is an error.

	Error	Why this is an error
(i)		
(ii)		
(iii)		
(iv)		
(v)		

[10]

Turn over

8 Tom has recently been the victim of cyber-bullying.

(a) Describe **one** form this cyber-bullying could have taken.

....

....

....

.... **[2]**

(b) Describe **two** ways that Tom should deal with this cyber-bullying to reduce the chance of it happening again.

1..

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....

....

2..

....

....

....

[4]

9 Tom has been researching into the use of games consoles and specialist input devices to increase children's participation in exercise.

Identify **two** specialist input devices that would involve players directly in exercise whilst using games consoles.

1 ....

2 ....

[2]

END OF QUESTION PAPER

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