

**Tuesday 15 January 2013 – Morning**

**LEVEL 1/2 CAMBRIDGE NATIONAL IN ICT**

**R001/01 Understanding Computer Systems**

Candidates answer on the Question Paper.

**OCR supplied materials:**

- Clean Copy Case Study

**Other materials required:**

None

**Duration: 1 hour**



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 **60**.
- This document consists of **12** pages. Any blank pages are indicated.

SECTION A

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

Answer all questions.

1 Steve Jones wants to listen to the music stored on his computer system.

(a) Identify **two** input devices that Steve could use to select a song stored on his system.

1 .....

2 ..... [2]

(b) Identify **one** output device that Steve would need so that he could listen to songs on his computer system.

..... [1]

(c) Identify **two** file types that are used to store music digitally.

1 .....

2 ..... [2]

(d) Before each booking, Steve selects the music he wants to play and transfers it to a storage medium.

(i) Identify **one** storage medium that would be suitable for this purpose.

..... [1]

(ii) Give **two** reasons why this is the most suitable medium.

1 .....

2 ..... [2]

2 Steve allows his audience members to request songs that they want to hear. He provides his audience with a form, on paper, on which requests can be made.

(a) What **type** of application software would be **most** suitable to use to create this form?

..... [1]

(b) State **one** output device that would be used to create a hard copy of this form.

..... [1]

Audience members must provide Steve with information so that he can correctly identify the song they want to hear.

(c) Identify **two** items of information that audience members would need to provide so that Steve can correctly identify the requested song.

1 .....

.....

2 .....

.....

[2]

Steve is worried that a paper-based form is **not** the most suitable method for data capture in a club.

(d) Explain **one** possible **disadvantage** caused by using a paper-based form to capture the information Steve needs.

.....

.....

.....

..... [2]

Steve is aware that many of his audience have smartphones.

(e) Describe **two** ways, other than voice calls, that Steve could use to enable his audience to request songs using smartphones.

1 .....

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2 .....

.....

.....

[4]

- 3 Steve creates and plays his own tracks by combining together samples. Some of the samples are from tracks written or performed by other people.

Explain **three** actions that Steve must take in order to comply with the Copyright, Designs and Patents Act when doing this.

1 .....

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2 .....

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3 .....

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[6]

- 4 Steve announces the names of some of the tracks he plays. Steve has both a wireless and a wired microphone that he could use.

(a) Explain **one** reason why Steve could choose a **wireless** microphone for this purpose.

.....

.....

.....

..... [2]

(b) Explain **one** reason why Steve could choose a **wired** microphone for this purpose.

.....

.....

.....

..... [2]

**5**  
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**Question 5 begins on page 6**  
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**SECTION B**

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

Answer **all** questions.

5 Nico uses a digital camera to photograph the DJs.

(a) State **two** ways in which the photograph, once taken, could be manipulated to make it suitable for use on Nico’s website. For each way, explain why this is necessary.

Way 1 .....

.....

Explanation .....

.....

.....

.....

Way 2 .....

.....

Explanation .....

.....

.....

.....

**[6]**

Nico has a user form, on her website, which people can fill in and submit if they want further information about any of the DJs.

(b) Complete the table below to describe the purpose of each user form feature.

The first line has been completed for you.

User form feature	Describe one purpose of this feature
Button	A user can click on this to submit the information that has been added.
Radio button	
Text field	

**[4]**

(c) Explain why the use of data validation could improve the effectiveness of the data that is submitted on these forms.

.....

.....

.....

..... [2]

**Question 6 begins on page 8**





7 Nico uses spreadsheet software to set suitable fees for each booking.

Explain **three** reasons why this software is suitable for this purpose.

1 .....

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2 .....

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3 .....

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[6]

8 Nico holds personal contact and bank account details of her DJs on her computer.

(a) State the name of the Act that controls the storage of personal information by Nico.  
..... [1]

(b) Describe **one** legal implication for Nico if this data is stolen.  
.....

.....

.....

..... [2]

(c) Explain **one** possible implication for Steve Jones if his personal information is stolen.  
.....

.....

.....

..... [2]

**ADDITIONAL ANSWER SPACE**

If additional answer space is required, you should use the following lined page(s). The question number(s) must be clearly shown in the margins.

A large area of lined paper for writing answers. It features a vertical margin line on the left side and horizontal dotted lines for writing. The lines are evenly spaced and extend across the width of the page.



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