

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

**CAMBRIDGE NATIONAL IN ICT**  
**Understanding Computer Systems**

**MONDAY 14 MAY 2018: Morning**  
**DURATION: 1 hour**  
**plus your additional time allowance**

**MODIFIED ENLARGED**

<b>Candidate forename</b>		<b>Candidate surname</b>	
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<b>Centre number</b>						<b>Candidate number</b>				
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**Candidates answer on the Question Paper.**

**OCR SUPPLIED MATERIALS:**

**Clean Copy of the Pre-release Case Study**

**OTHER MATERIALS REQUIRED:**

**None**

**READ INSTRUCTIONS OVERLEAF**



## **INSTRUCTIONS TO CANDIDATES**

**The Case Study Insert can be found inside this document.**

**Write your name, centre number and candidate number in the boxes on the front 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.**

**Answer ALL the questions.**

## **SECTION A**

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

**1 Each week, a motivational video is recorded.**

**(a) Identify ONE input device that can be used to create a weekly video recording.**

\_\_\_\_\_ **[1]**

**Each video recording is posted on the Gym's website so members can watch it.**

**(b) (i) Identify ONE device that this video recording could be watched on.**

\_\_\_\_\_ **[1]**

**(ii) Describe ONE feature of this device that makes it suitable for this purpose.**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ **[2]**

**2 Global Positioning System (GPS) enabled devices are used to locate the position of individual riders during a group cycle ride.**

**(a) Describe how GPS technology identifies the location of an individual rider.**

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**[4]**

**(b) Describe how data from GPS enabled devices can be used to track the location and speed of movement of riders during a group cycle ride.**

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**[4]**

**Each personal trainer has been given a laptop to help them with their work.**

**(c) Explain ONE reason why each personal trainer has been given a laptop rather than a desktop machine for this purpose.**

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**[2]**

**Personal trainers have individual microphones that are used when recording their audio notes on the exercises being completed by gym members.**

**(d) Explain TWO reasons why personal trainers would take notes using a microphone.**

**1** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**2** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**[4]**

**3 The laptops in the Gym hold the personal data of each gym member.**

**(a) Describe TWO ways that Maes Knoll Gym can protect the data on each laptop from unauthorised access.**

**1** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**2** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ **[4]**

**(b) Identify ONE way that each laptop can be protected from theft whilst not in use.**

\_\_\_\_\_ **[1]**

**One of the laptops has been stolen from the Gym.**

**(c) Explain ONE NEGATIVE impact of this theft on Maes Knoll Gym.**

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**[2]**

**(d) Explain ONE POSSIBLE impact of this theft on members of Maes Knoll Gym.**

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**[2]**



**4 Each laptop is used as a stand-alone computer.**

**(a) Describe what is meant by the term ‘stand-alone computer’ in this context.**

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[2]

**(b) Describe ONE technology that could be used to create a network of all the laptops used by the personal trainers.**

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[2]

**SECTION B**

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

**5 Mandy has been given a budget to buy a computer system that suits the needs of her job.**

**(a) Explain how the following factors will impact on Mandy’s decision of which computer system to buy:**

**budget;  
user needs. [9]**

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[illegible]

**Mandy has already decided the standard computer hardware such as the mouse, monitor, keyboard and the microphones that she will buy.**

**(b) Identify TWO additional items of peripheral hardware that Mandy will need for her job. For EACH item, explain why Mandy needs them to complete her job.**

**1** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**2** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**[4]**

**6 Mandy needs to create an urgent press release about the new yoga instructor who has joined the Gym. The press release will include only text and will be saved as a file on her computer.**

**(a) Identify the MOST suitable software for Mandy to use to create the press release.**

\_\_\_\_\_ [1]

**Mandy has created a folder on her computer for her 2018 press releases and called it PRESS RELEASES – 2018**

**(b) Explain ONE reason why Mandy has used this name for the folder.**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [2]

**Mandy needs to send the file to the owner of the Gym for checking. The owner is currently on holiday in Australia.**

- (c) (i) Identify the MOST suitable method that could be used to send the file to the owner of the Gym.**

\_\_\_\_\_ **[1]**

- (ii) Explain why this is the MOST suitable method to use.**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ **[2]**

**Mandy has sent the file to the owner of the Gym. She has turned on the 'track changes' feature.**

- (d) Describe how the 'track changes' feature is used as part of Mandy's collaboration with the owner of the Gym.**

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**[2]**

- (e) Explain ONE reason why Mandy has chosen to use the 'track changes' feature with the file she has sent to the owner of the Gym.**

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**[2]**

- 7 Mandy needs to arrange a meeting that will involve the owner of the Gym and the new yoga instructor. She will use diary management software to organise the meeting.

(a) Complete the table below to describe how the identified features of diary management software could be used for this purpose. [4]

Features of diary management software	How Mandy can use this feature
creating meetings	
inviting participants	



- (b) Describe ONE OTHER feature of diary management software that Mandy can use to try to ensure that the owner of the Gym does not miss the meeting.**

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**[2]**

**END OF QUESTION PAPER**

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