

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

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

**TUESDAY 9 JANUARY 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 (R001/01)**

**OTHER MATERIALS REQUIRED:**

**None**

**READ INSTRUCTIONS OVERLEAF**



## **INSTRUCTIONS TO CANDIDATES**

**The Case Study Insert can be found with 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.**

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**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 SecuritechTV closed-circuit television (CCTV) systems can be set up so that the live video feed can be watched by a security guard.**

- (a) Identify the type of output device that is most suitable for this purpose.**

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

- (b) Some CCTV cameras are set up so that they can be rotated and tilted to change their view.**

**Describe how output devices are used to change a camera's view.**

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

**(c) The live feed can be saved onto a secondary storage device.**

**(i) Explain ONE feature of a secondary storage device that would make it suitable for use in storing a day's video data.**

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[2]

**(ii) Identify ONE type of storage device that would be suitable for this task.**

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[1]

**(d) Identify ONE suitable file type to use for storing video files.**

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[1]

**2 When a CCTV system is installed, the main account is given the name 'Administrator' and the default password is set to 'Let me in'.**

**(a) Identify ONE reason why the Administrator account is always given the same default password.**

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**[1]**

**(b) Describe ONE way in which SecuritechTV could be affected if the main administrator password is not changed from this default setting.**

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**[2]**

**SecuritechTV has been asked for advice on what makes a secure password.**

**(c) State TWO items of advice that SecuritechTV could pass on to customers wishing to create a secure password.**

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

\_\_\_\_\_

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

\_\_\_\_\_

**[2]**

**3 Each CCTV system, installed by SecuritechTV, includes a desktop computer that runs the CCTV system. Each desktop computer has an operating system that includes utility software.**

**(a) Describe what is meant by the term ‘utility software’.**

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**[2]**



- (b) The table below lists three types of utility software. Complete the table to describe why each type of utility software would be used on the desktop computer system. [6]

Type of utility software	Description of why the software would be used
Data compression utility	
Disk checker utility	
Disk defragmenter utility	

- (c) Identify TWO OTHER types of utility software.

1. \_\_\_\_\_

2. \_\_\_\_\_

[2]

**4 The cameras that SecuritechTV use can be connected wirelessly or by cable to a CCTV network.**

**(a) Explain why a wireless network may be less secure than a wired network.**

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**[4]**

**(b) Describe how the data transmitted by a wireless signal can be made more secure.**

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**[2]**

**(c) Explain ONE advantage of using a wireless connection between a CCTV camera and the CCTV network.**

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[2]

**(d) Explain ONE advantage, other than security, of using a wired connection between a CCTV camera and the CCTV network.**

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[2]

## **SECTION B**

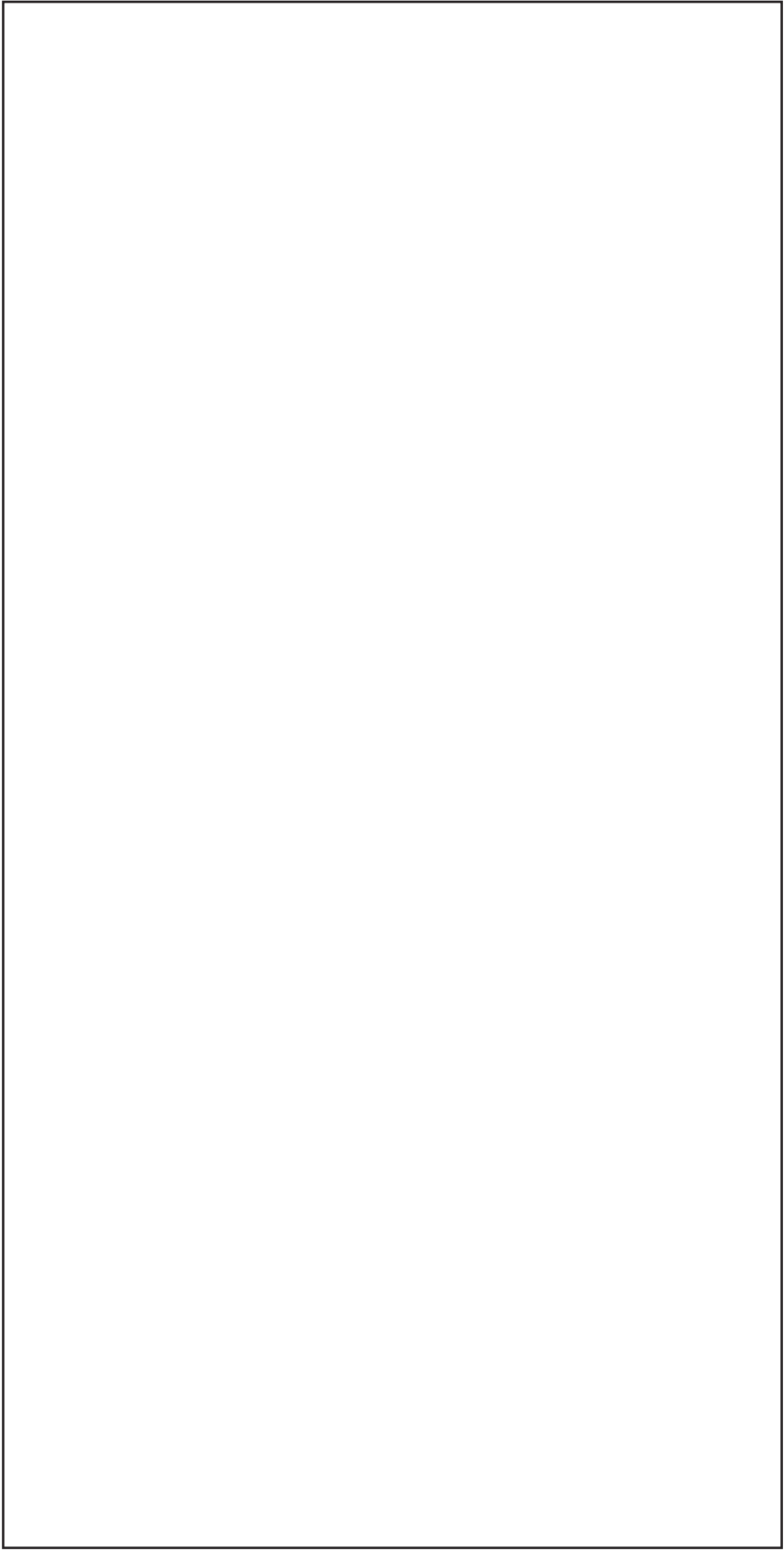
**The questions in this section are based on scenario 2 in the case study and your background research.**

**5 HGR Electricals would like to create an online form that each new member of staff completes to show that they are aware that the factory is under 24 hour surveillance.**

**(a) Use the space below to design a suitable form to use online. Use the inner box to draw your form and the space in the outer box to add an explanation of the features you have included.**

**Marks will be awarded for:**

**items to be included;  
good use of space;  
fitness for purpose;  
annotations to explain why each feature has been included. [9]**



- (b) HGR Electricals would like the data that is entered into the online form to be saved directly onto the staff database once it is submitted by an employee.**

**Describe ONE way that the data can be coded so that it can be entered directly onto the staff database.**

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[2]

- (c) Explain ONE POSITIVE impact on HGR Electricals of data entered onto the online form being saved directly onto the staff database.**

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[2]

- (d) Explain ONE NEGATIVE impact on HGR Electricals of data entered onto the online form being saved directly onto the staff database.**

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[2]

- (e) When the online form is sent back to HGR Electricals by an employee, a presence check is run on each field included on the form.**

**Explain ONE reason why this presence check is important.**

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[2]

- 6 Will is convinced that the only evidence that supported his manager's claim that he was spending too long away from his work area was gathered by cameras in the staff rest areas and coffee shop. At his review, Will claimed that it was wrong to gather and use information in this way.**

**Discuss the view that using CCTV cameras to monitor staff use of the rest areas and coffee shop is an inappropriate use of CCTV technology. [8]**

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**7 Will used his ex-manager's User ID and password to remotely access the company's network without permission and delete some files.**

**(a) Identify the UK law that Will has broken by accessing the network in this way.**

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

**(b) Describe ONE possible penalty that a court can impose upon Will if he is found guilty of accessing the network without permission and deleting files.**

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

**END OF QUESTION PAPER**

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