

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

**R001/01**

**CAMBRIDGE NATIONAL IN ICT  
Understanding Computer Systems  
THURSDAY 7 JANUARY 2016: Morning  
DURATION: 1 hour  
plus your additional time allowance**

**MODIFIED ENLARGED 24pt**

<b>Candidate forename</b>						<b>Candidate surname</b>					
<b>Centre number</b>						<b>Candidate number</b>					

**Candidates answer on the Question Paper.**

**OCR SUPPLIED MATERIALS:**

**Clean Copy of the Pre-Release Case Study  
(R001/01 – Inserted)**

**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 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.**

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**SECTION A**

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

**Answer ALL questions.**

**1 Everyone who wants to register with Appleside Doctors’ Practice must complete a questionnaire on paper.**

**(a) Describe ONE benefit of using a paper-based form for this purpose.**

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[2]

**(b) Describe ONE disadvantage, to the practice, of using a paper-based form for this purpose.**

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[2]

**The practice needs to keep a digital copy of each questionnaire.**

**(c) Identify ONE device that could be used to create a digital copy of a questionnaire.**

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[1]

**2 The data provided on the questionnaire is added to a database of patients' records.**

**(a) Identify TWO input devices that administration staff might use when adding this data to the database.**

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

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

**[2]**

**(b) Identify ONE output device that can be used to view the records as they are added.**

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

**(c) Explain why including a form in a database would make the process of adding data more efficient.**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

**(d) Describe how using a query would make the database easier to work with.**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

**3 Appleside Doctors’ Practice provides wifi access in the waiting room for patients to use on their own devices.**

**(a) Explain why providing wifi access may cause a security risk for the practice.**

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[3]

**(b) Describe ONE way that this risk can be reduced whilst still providing wifi access.**

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[2]

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**4 The Office Manager backs up all of the data held on the system to an external hard drive.**

**(a) Data is backed up overnight. Explain ONE reason why data is backed up overnight, rather than at any other time during the day.**

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**[2]**

**The Office Manager is considering changing the back-up system so that all data is backed up to the cloud.**

**(b) Compare the use of cloud storage and a removable hard drive as ways of backing up all the data held by Appleside Doctors’ Practice. Suggest which method would be most suitable, giving reasons for your choice.**

**[8]**

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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 When a patient requests an out-of-hours home visit, the doctor on call is telephoned with the details.**

**Explain ONE possible advantage and ONE possible disadvantage, to the practice, of using a telephone to pass on this information.**

**Advantage:**

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**Disadvantage:**

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**[4]**

**6 Tamsin is given a laptop computer that she uses when she visits patients' homes.**

**(a) Identify ONE purpose of the operating system on Tamsin's laptop computer.**

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

**(b) Describe the purpose of the hard drive on Tamsin's laptop computer.**

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

**It is important that the data held on Tamsin's laptop computer is kept secure.**

**The operating system on Tamsin's laptop computer warns her if she is not using a strong password.**

**(c) Identify TWO features of a strong password.**

**1:** \_\_\_\_\_  
**2:** \_\_\_\_\_ [2]

**Tamsin has to insert a USB security key when she first switches on her laptop computer.**

**(d) Explain how this improves the laptop computer’s security.**

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**[3]**

**7 The laptop computer issued to each doctor has anti-virus software installed.**

**(a) Describe ONE reason why the practice needs anti-virus software installed on each of its computers.**

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**[2]**

**Anti-virus software can be updated manually or automatically.**

**(b) The Office Manager uses an automated system to update the anti-virus software. Explain ONE benefit to the Office Manager of using the automated system.**

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**[2]**

**Once a month, Tamsin has to return her laptop computer to the practice for routine maintenance. The Office Manager uses some of the system tools on the laptop computer for this purpose.**

**The Office Manager uses a system tool to defragment Tamsin's laptop computer.**

**(c) (i) Explain ONE reason why it is important to defragment Tamsin's computer.**

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**[2]**

**(ii) Identify and describe TWO further system tools that could be used by the Office Manager to maintain Tamsin’s laptop.**

**System tool 1:** \_\_\_\_\_

**Description:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**System tool 2:** \_\_\_\_\_

**Description:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**[6]**

**8 Tamsin has suggested that the practice should use a digital form.**

**(a) Give ONE benefit to patients of including a HEADING on a digital form.**

\_\_\_\_\_

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

**(b) Describe ONE benefit of using a dropdown list on the digital form to select ethnic group.**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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



**(c) The new digital form will include RADIO BUTTONS and TEXT BOXES.**

**Compare the information that the patient will be able to enter with these two features.**

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**[4]**

**(d) At the bottom of the form, there will be a SUBMIT button.**

**Describe what happens when the user clicks the submit button on the form.**

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**[2]**

**END OF QUESTION PAPER**

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