



Oxford Cambridge and RSA

Thursday 7 January 2016 – Morning

LEVEL 1/2 CAMBRIDGE NATIONAL IN ICT

R001/01 Understanding Computer Systems

5957073012*

Candidates answer on the Question Paper.

OCR supplied materials:

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

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

- 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.

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.

.....

[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.

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..... [2]

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

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..... [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]

- 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.

[2]

[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〕

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.

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..... [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:

.....

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System tool 2:

Description:

.....

.....

[6]

10

- 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.

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..... [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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