**Mock Exam Paper 2 May 2015**

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

R001 Understanding Computer Systems

Candidates answer on the question paper.

**OCR supplied materials:**

None

**Other materials required:**

None

**Duration:** 1 hour

**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.

• 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).

• Answer **all** the questions.

**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 10pages. Any blank pages are indicated.

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**Turn over**

## **Section A**

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

Answer **all** questions.

1. The office at Animated World Books has three desktop computers and one laptop computer.
   1. Tick one box in each row of the table to show whether the statement best describes a desktop computer or a laptop computer. [4]

|  |  |  |  |
| --- | --- | --- | --- |
| Statement | Laptop | Desktop |  |
| Easily portable |  |  |  |
| Light weight/ |  |  |  |
| Needs to be plugged into an electricity supply |  |  |  |
| Separate keyboard |  |  | **[4]** |

* 1. The laptop used in the office needs to connect to the Animated World Books network.

Identify one device needed to connect the laptop to the network.

|  |  |
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|  | **[1]** |

* 1. A user must enter a username and password to access the Animated World Books network.
     1. Describe how the network operating system uses the username.

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|  | **[2]** |

* + 1. State why a password is needed when logging in to the network.

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|  | **[1]** |

* + 1. Give one reason why this password should be changed regularly.

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|  | **[1]** |

1. When Catherine and her team are planning a new project they create a shared folder on the network at ANIMATED WORLD BOOKS.
   1. Explain why it is better to use a network shared folder than to send files between team members as email attachments [2]

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|  | **[2]** |

When some team members do not work in the office, they are unable to access this shared folder from their own computers.

* 1. Suggest a way that files could be shared with team members not based in the office.

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|  | **[1]** |

* 1. Explain why Catherine and her team might keep draft and final versions of assets they are developing.

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|  | **[2]** |

The team stores information about a new book project in a file created in Word Processor software.

* 1. State **two** ways that a word processed document could be protected from unauthorised editing.

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|  | **[2]** |

1. Catherine communicates with her team outside of the office in a number of ways. Catherine prefers to use instant messaging rather than phone calls.
   1. Explain two benefits for Catherine of communicating with instant messaging rather than with phone calls.

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|  | **[2]** |

* 1. Explain one drawback of using instant messaging rather than phone calls.

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|  | **[1]** |

1. Catherine is investigating the use of a mobile app to advertise ANIMATED WORLD BOOKS’s new projects.
   1. Android and iOS are two examples of mobile phone Operating Systems.   
      Explain why an operating system is required on a smartphone.

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|  | **[2]** |

* 1. Describe how a mobile app could be installed on a smartphone.

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|  | **[2]** |

* 1. Suggest **two** features ANIMATED WORLD BOOKS could include in a mobile app to advertise new products.

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|  | **[2]** |

1. One of Catherine’s team suggested putting short clips from a new animated cartoon onto a popular video sharing website.
   1. Discuss benefits and drawbacks of this as an advertising strategy.

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|  | **[6]** |

* 1. Suggest **one** other way that ANIMATED WORLD BOOKS could use the internet to advertise the new cartoon.

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|  | **[1]** |

1. Catherine has heard there can be some negative effects from overuse of ICT equipment.

Give **two** different negative health effects from overuse of ICT and discuss ways that this effect can prevented or reduced.

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|  | **[6]** |

## **Section B**

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

Answer **all** questions.

1. Richard has a website that he uses to sell artwork.
   1. Identify **one** input device that could be used to enter text onto the website.

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|  | **[1]** |

John, a new customer, must set up an account by completing a form on the website before he can place an order. To do this, he will need to choose a username and enter the country where he lives.

* 1. Explain why each username used on Richard’s website must be unique.

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|  | **[2]** |

* 1. Explain how the form could make sure that John can enter only a valid country name.

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|  | **[2]** |

1. Richard has been advised that he needs to back up the data he collects from his customers.
   1. Explain why it is necessary to back up data.

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|  | **[2]** |

* 1. Richard is considering using an automated back-up system.  
     Explain **one disadvantage** to Richard of using an automated system to back up data.

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|  | **[2]** |

1. When Richard has completed an illustration he uploads it directly to a server at the ANIMATED WORLD BOOKS main office.
   1. Describe **one** possible threat to data security that could be caused by transferring data between computers.

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|  | **[2]** |

* 1. ANIMATED WORLD BOOKS use a firewall to protect its server.  
     Describe how a firewall protects a server.

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|  | **[3]** |

1. Richard plans to use a photograph of a fast food restaurant on his website. He has found a suitable image on the website of a fast-food restaurant business.
   1. State the Law (Act) that must be complied with if this image is to be used on Richard’s website.

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|  | **[1]** |

* 1. State **two** actions that Richard would need to take in order to use these images legally.

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|  | **[2]** |

* 1. Richard chooses to use a photograph he has taken himself. Discuss how the law might affect his using this image.

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|  | **[3]** |

Richard often uses social media to share images of his artwork and links to his website where customers can buy from him.

Recently, someone Richard doesn’t know on social media has been publishing abusive messages about Richard and his artwork.

* 1. Explain what would be an appropriate response from Richard.

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|  | **[2]** |

**END OF QUESTION PAPER**