**Cambridge Nationals in ICT**

**Unit 1**

**Revision Booklet**

Please use this booklet alongside the notes you have already been given to revise correctly for the Unit 1 exam on January 7th, 2016.

**Doctor’s Surgery Case Study**

**Hardware**

1. What hardware will a doctor’s surgery need to input data to a database? Explain how each will be used:

|  |  |
| --- | --- |
| **Hardware required** |  |
| **Purpose** |  |
| **Hardware required** |  |
| **Purpose** |  |
| **Hardware required** |  |
| **Purpose** |  |
| **Hardware required** |  |
| **Purpose** |  |

1. What software will a doctor’s surgery require and for what purpose?

|  |  |
| --- | --- |
| **Software required** |  |
| **Purpose** |  |
| **Software required** |  |
| **Purpose** |  |
| **Software required** |  |
| **Purpose** |  |
| **Software required** |  |
| **Purpose** |  |

1. Explain how the following devices may be used in a doctor’s surgery:

|  |  |
| --- | --- |
| **Mobile Phone** (think about contact out of hours for the doctor, as well as how he gets to the address and how the surgery can keep track of his location). |  |
| **Laptop** |  |
| **Desktop** |  |
| **Touch Screen computer** |  |

Give the benefits and drawbacks for the following storage media for use to backup the data for the doctor’s surgery:

|  |  |
| --- | --- |
| External hard drive |  |
| Cloud |  |
| Magnetic Tape |  |
| DVD |  |
| CD |  |
| USB Flash drive |  |

1. Which features of a digital form are helpful to ensure accuracy, explain why?

|  |  |
| --- | --- |
| **Feature** | **Reason** |
|  |  |
|  |  |
|  |  |

1. Which features of a digital form make it easy for the user to enter data and why?

|  |  |
| --- | --- |
| **Feature** | **Reason** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

1. Explain the purpose of each of the following system tools:

|  |  |
| --- | --- |
| **Tool** | **Purpose** |
| Disk Defragment |  |
| Disk Cleaner (registry cleaners, file cleaners) |  |
| Software Uninstaller |  |

1. Explain the benefits and drawbacks of digital and paper data collection forms:

|  |  |  |
| --- | --- | --- |
|  | **Benefits** | **Drawbacks** |
| Paper based | 1.
2.
3.
 | 1.
2.
3.
 |
| Digital | 1.
2.
3.
4.
 | 1.
2.
3.
4.
 |

1. Explain how each of the following would be used in a doctor’s surgery:
	1. Database form:
	2. Database Query:
	3. Database report:

1. What are the risks to data when doctor’s use a laptop that they take home with them:

|  |  |  |
| --- | --- | --- |
| **Risk** | **Impact** | **Possible Solution** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

1. Explain the steps that a patient would need to take to connect to the WIFI in a doctor’s surgery:

1. Which law is associated with storing data:

1. Which law is associated with hacking and viruses?

1. What are the security protocols for Networks?

1. Why might the doctor’s surgery have 2 different WIFI networks?
2. What does SSID mean?
3. How can you keep your network secure?
4. What is an online Diary Management System and how might a Doctor’s surgery use this?