**SL Unit 1** **- System Fundamentals**  
Quiz 3 (rubric)

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| **Question 1** | | | |
| Objectives: | 1.1.13 | Exam Reference: | Nov-14 Question 2 |

Identify **two** methods that can be used to prevent data loss. [2]

*Award* ***[1 mark]*** *for each method identified up to* ***[2 marks max]****.*

Failover systems;

Redundancy;

Removable media;

Offsite / online storage;

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| **Question 2** | | | |
| Objectives: | 1.1.1 | Exam Reference: | May-14 Question 1 |

Identify **two** features that need to be considered when planning a new computing system for   
an organization. [2]

Roles/activities of the users (*eg* permissions, security, partitions, collaborative work);

Resources (HW and SW equipment) appropriate for the organization;

Costs/budget limits;

Delivery time;

Compatibility with the old system (data);

*(Other acceptable answers are possible, from the economic, operational and technical*

*perspective.)*

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| **Question 3** | | | |
| Objectives: | 1.2.5 | Exam Reference: | May-14 Question 3 |

Describe **one** advantage and **one** disadvantage of using observations to gather information when planning a new system. [4]

*Award* ***[1 mark]*** *for the identification of an advantage and* ***[1 mark]*** *for explaining the*

*advantage.*

*Award* ***[1 mark]*** *for the identification of a disadvantage and* ***[1 mark]*** *for explaining the disadvantage.*

*Advantages*

*Quick/first hand/realistic information on data/software/hardware/users/procedures in the current system.  
Help better understand positive and negative features of the current system (for example problems in accessing or validating data/user errors/security issues, etc.).  
Can highlight aspects that are not detected in questionnaires/interviews so the observer can help produce more detailed reports.*

*Disadvantages*

*Time consuming / expense.  
The observer might need to observe a complete "cycle" which could last a significant  
amount of time.  
If the observations are made by only one person, they may be biased.*

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| **Question 4** | | | |
| Objectives: | 1.1.14 | Exam Reference: | May-15 Question 6 |

Describe **one** way that software developers can ensure that the users are aware of any available  
updates for their products. [2]

*Award up to* ***[2 marks max]****.*

*Award* ***[1 mark]*** *for communication with user – email/ pop up etc.*

*Award* ***[1 mark]*** *for method of installation of update – automatic/ link/ in list for user to install etc.*

When the software is installed and registered (a cookie is placed on the machine);

This communicates with the software developer automatically on start up;

Messages about updates are sent back to the machine and alerts are given;

**OR**

Send an email;

With a link to the update;

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| **Question 5** | | | |
| Objectives: | 1.2.2 | Exam Reference: | Nov-15 Question 5.a.b |

A school uses a local area network (LAN) which connects several computers and a printer to  
 a server and allows access to the internet.

1. Define the term server. [1]

A computer system that serves as a central repository of data and programs and is shared by clients;

1. Identify the different clients in this network. [1]

Computer / Printer;