**SL Unit 1** **- System Fundamentals**  
Test 1

1. An examination office of a university must securely store students’ examination papers and their grades. The office keeps the documentation of past students for two years. After two years the office only stores the student grades. All documentation of current students is frequently accessed for other operations and the volume of the data increases quickly.  
     
   To better support its operations, the office is creating a new system to provide this storage.
2. Identify **two** aspects of the data that need to be taken into account during the planning

of the new system. [2]

1. Describe how direct observations on the current system may provide information to

help propose a suitable new system. [3]

A prototype of the new system is created to present to the examination office.

1. Describe the purpose of this prototype. [3]

The examination office needs to upgrade the computing resources for their operations, and  
 this will require data migration.

1. Discuss **two** possible problems that may occur during data migration. [4]

1. Outline **one** economic aspect that the examination office needs to take into account to

support parallel running. [2]

1. Outline the use of a failover system. [2]
2. An application package used in an office includes a word processor. A secretary uses the  
   word processor to create a text file. The text file is automatically saved at regular periods while being edited. All files created in this office contain information important to the business.  
     
   Outline the security measures that should be taken to prevent data loss. [2]
3. Describe the use of beta testing. [2]
4. Identify **two** reasons for releasing a software update. [2]

1. Identify **one** method of inputting data that can improve the accessibility of a computer  
   system for some users. [1]

1. In the context of a networked world, state the role of
2. A client [1]
3. A server [1]